VM9511TS

Instruction Manual
Manual de Instrucciones
Guide d'instructions

CONTENTS

Thank you for choosing a Jensen product. We hope you will find the instructions in this owner's manual clear and easy to follow. If you take a few minutes to look through it, you'll learn how to use all the features of your new Jensen VM9511TS Mobile Multimedia AM/FM/DVD Receiver for maximum enjoyment.

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CONTENIDO

Gracias por elegir los productos Jensen. Esperamos que encuentre en este manual instrucciones claras y fáciles de seguir. Si se toma unos pocos minutos para leerlo, aprenderá cómo utilizar todas las funciones de su nuevo radio Jensen para su máximo entretenimiento.

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Merci d'avoir choisi un produit Jensen . Nous espérons que vous allez trouver les instructions dans ce guide de propriétaire claires et faciles à suivre . Prenez quelques minutes à le consulter, vous apprendrez à utiliser toutes les fonctions de votre nouvelle radio Jensen pour en tirer une jouissance maximum.

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PREPARATION

Congratulations on your purchase of the Jensen VM9511TS Mobile Multimedia AM/FM/DVD Receiver.

It's a good idea to read all of the instructions before beginning the installation. We recommend having your Jensen VM9511TS installed by a reputable installation shop.

Features

DVD

- Compatible formats: DVD-R, DVD-RW, DVD+R, DVD+RW, CD-R, CD-RW, CD-DA, MP3, WMA, SVCD, VCD, MPEG2, MPEG4, AVI and JPEG
- Region 1 playback
- 16:9 Aspect ratio- Wide / Normal / Cinema
- Front panel DVD control
- High-speed Fast Forward / Fast Rewind 2X, 4X, 8X, 32X
- Play, Pause, Stop, Slow
- Chapter Up / Down
- V-SEL - MultiZone output 'Kid-Zone'
- Wolfson Microelectronics high performance 24-bit, 192 kHz DAC supports 6-channel and 2-channel "Down-Mix" audio modes
- 16MB high-speed flash memory - 80nS access time
- 2 second ESP (Electronic Skip Protection)

Integrated SD Card Reader

- Compatible formats: MP3, WMA, AVI, MPEG1, MPEG2, MPEG4 and JPEG
- Supports up to 2GB SD card

MP3/WMA

- GIGA MP3 - Store up to 999 MP3 files on a DVD
- ID3-tag compatible
- Direct track access
- Play, Pause, Stop, Track Up / Down
- 60 second (MP3), 120 second (WMA) ESP - Electronic Skip Protection

CD

- CD-text compatible
- 4 second ESP (Electronic Skip Protection)

AM/FM Tuner

- User-selectable frequency spacing
- 30 Station presets (18FM/12AM) JENSEN Plus Tuner II

Outboard Media Module

- Input adapter for TV Tuner, XM and iPod

TV Tuner (Included)

- VHF 2-13
- UHF 14-69
- TV antenna (3.5mm antenna included)
- F-Connector/Coaxial Antenna Input (optional)

XM Ready

- Requires optional Terk XMD1000 tuner box
- Requires optional Terk XMDJEN100 or Jensen JXMC XM cables
- Advanced display shows the artist, song title, and XM channel and category at a glance
- Direct channel entry

Navigation Ready

- Requires optional NAV100 navigation module

jLink Ready

- Controls and charges all iPod's except "Shuffle"
- Displays all text information including category, track name, artist and channel number

Chassis

- 7-inch TFT touch screen LCD - 336,960 pixels (1440W X 234H)
- TSD - Touch Screen Display menu control
- Fully automatic motorized TFT LCD flip-out and up
- 16-step TFT LCD tilt adjustment
- Beep Tone confirmation
- 1.0 Din
- Import/ISO/DIN mountable
- Heat management system - Incorporates forced air-cooling to keep the chip-sets operating at nominal temperatures
- Heavy duty galvanized chassis

Multi-ZONE

- Allows front passengers to listen to the radio while rear passengers listen to a CD, MP3, WMA or watch DVDs

General

- Full function infrared remote control
- Limited function infrared "Kid Zone" remote
- OSD - On Screen Display menu control
- High-performance audio processor
- Electronic volume, bass, treble, balance and fader
  - Bass center frequency adjustment - 60, 80, 100, 130, 150 and 200Hz
  - Bass Q factor - 1.0, 1.25, 1.5 and 2.0
  - Treble center frequency adjustment - 10, 12.5, 15 and 17kHz
  - Subwoofer crossover - 80, 120 and 160Hz
  - Subwoofer Phase - 0 - 180 degrees
  - Subwoofer level - variable
- 100-ohm low impedance pre-amp outputs, all channels
- 5V Peak / 2V RMS RCA outputs, all channels
- 1-pair front RCA outputs and 1-pair rear/surround RCA outputs
- Single Subwoofer RCA output
- Center Channel RCA pre-amp output (variable)
- 1-pair headphone/Multi-ZONE RCA outputs
- 1-pair auxiliary RCA A/V inputs
- Back-up camera input with reverse override
- 1 NTSC composite video output for additional screens
- NTSC Multi-ZONE composite video for additional screens
- Front panel (when screen is closed) high contrast LCD
- Rotary encoder audio control
- Joystick menu navigation

Tools and Supplies

You will need these tools and supplies to install your VM9511TS:

- Torx type, flat-head and Philips screwdrivers
- Wire cutters and strippers
- Tools to remove existing radio (screwdriver, socket wrench set or other tools)
- Electrical tape
- Crimping tool
- Volt meter/test light
- Crimp connections
- 18 gauge wire for power connections
- 16 – 18 gauge speaker wire

WARNING! Only connect the unit to a12-volt power supply with proper grounding.

WARNING! Never install this unit where operation and viewing could interfere with safe driving conditions.

WARNING! To reduce the risk of a traffic accident (except when using for rear-view video camera) never use the video display function while driving the vehicle. This is a violation of federal law.

WARNING! Never disassemble or adjust the unit without the assistance of a professional. For details, please consult your local car stereo specialty shop.

WARNING! To prevent injury from shock or fire, never expose this unit to moisture or water.

WARNING! Never use irregular discs.

WARNING! To prevent damage to the mechanism inside this unit, avoid impact to the TFT monitor.

WARNING! Do not change the fuse on the power wire without professional guidance. Using an improper fuse may cause damage to the unit and result in a fire.

WARNING! The monitor employs an automatic motorized mechanism. To prevent damage to the core mechanism, please do not push, pull or swivel the monitor manually.

Optional Accessories

iAUX^3 READY (Sold Separately)

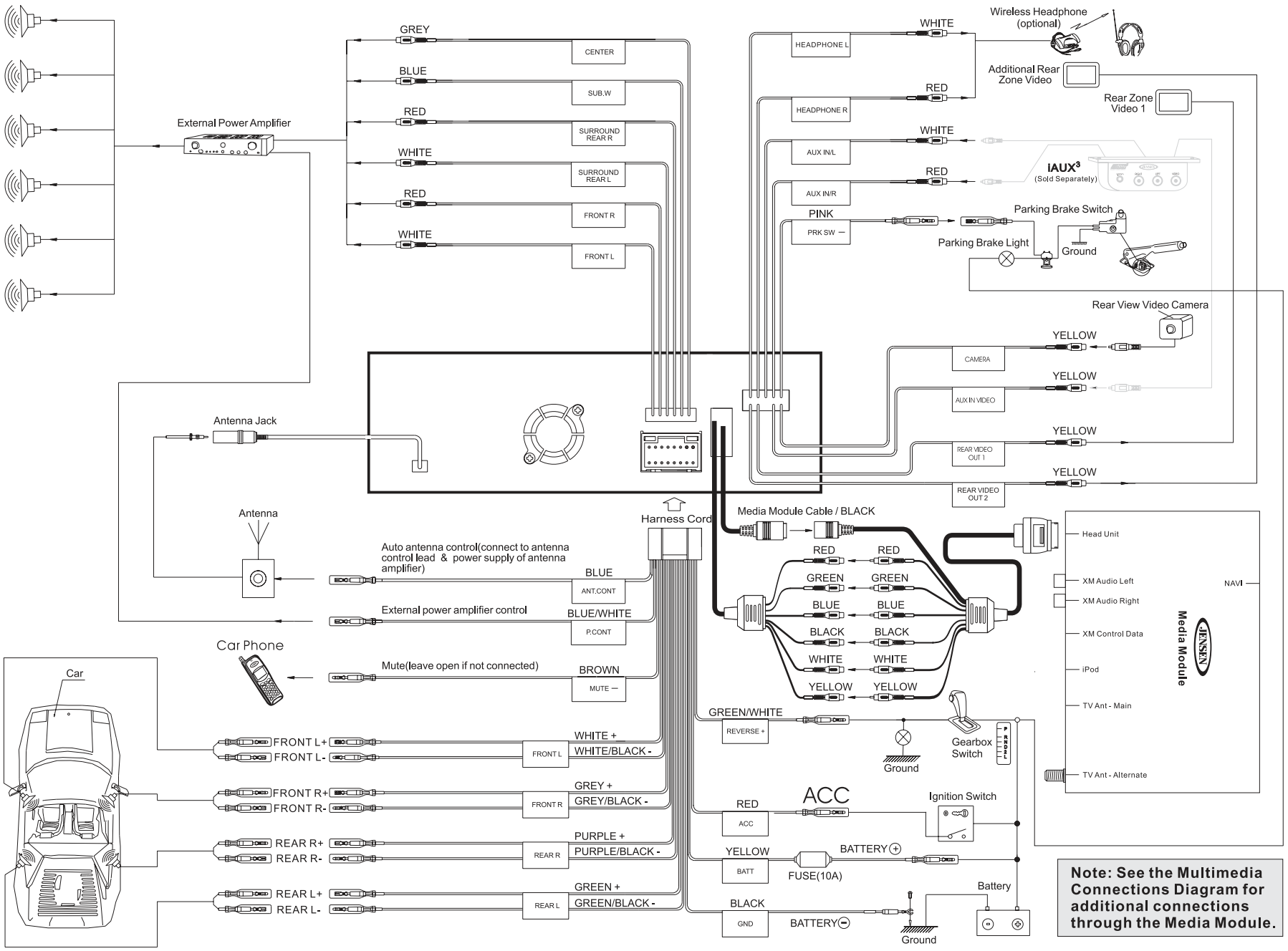
- Can connect to any portable media device or multimedia device using a standard 3.5mm plug
- Converts 3.5mm auxiliary input to RCA stereo outputs for easy connection to the radio's AUX inputs

Disconnecting the Battery

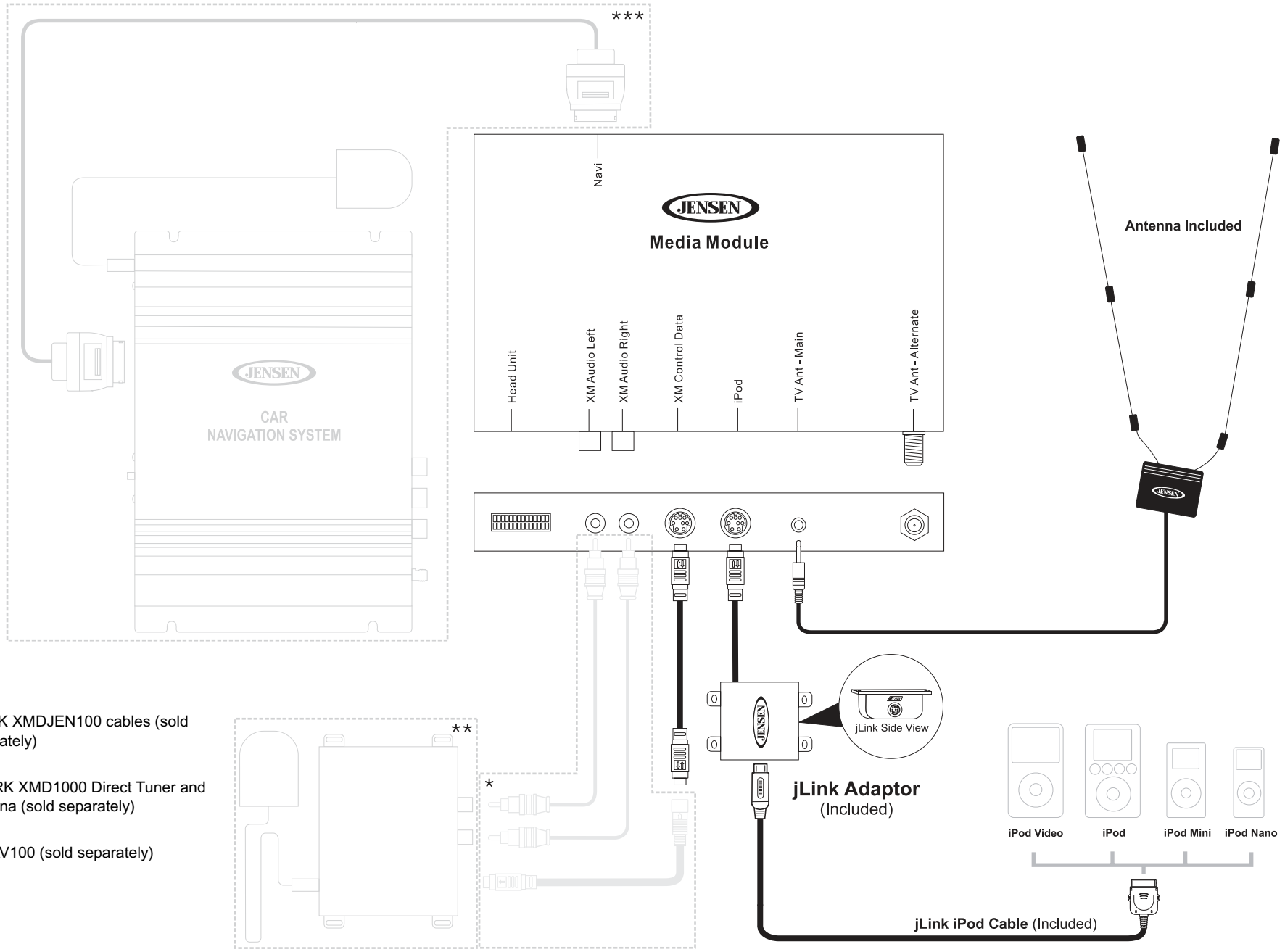
To prevent a short circuit, be sure to turn off the ignition and remove the negative (-) battery cable prior to installation.

NOTE: If the VM9511TS is to be installed in a vehicle equipped with an on-board drive or navigation computer, DO NOT disconnect the battery cable. If the cable is disconnected, the computer memory may be lost. Under these conditions, use extra caution during installation to avoid causing a short circuit.

WIRING DIAGRAM



WIRING DIAGRAM - MULTIMEDIA CONNECTIONS



*TERK XMDJEN100 cables (sold separately)

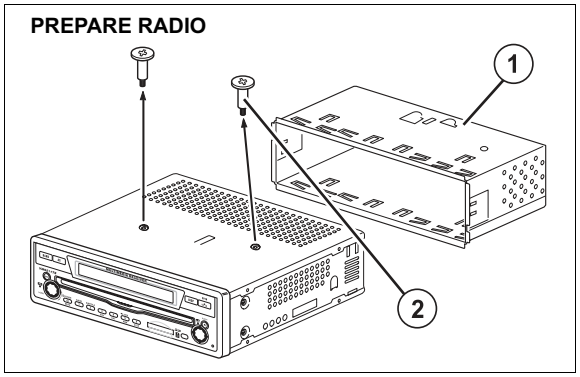
**TERK XMD1000 Direct Tuner and antenna (sold separately)

***NAV100 (sold separately)

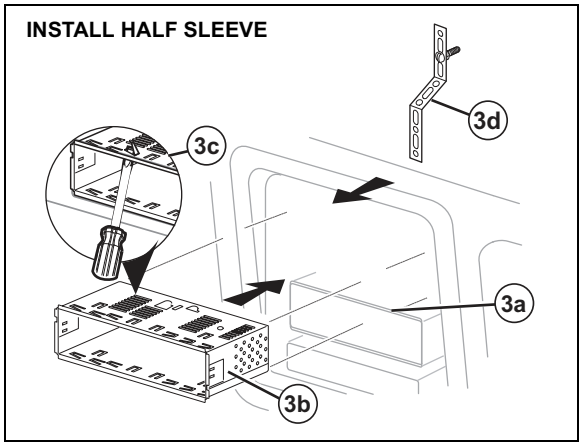
INSTALLATION

Pre-installation

1. Press the metal levers on both sides to remove the half-sleeve from the radio.
2. Remove the transport screws.



3. Install the half-sleeve.
   a. Install adapter if necessary (optional).
   b. Install half-sleeve into adapter or dashboard (use only the supplied screws). Do not force the sleeve into the opening or cause it to bend or bow.
   c. Locate the series of bend-tabs along the top, bottom and sides of the mounting sleeve. With the sleeve fully inserted into the dashboard opening, bend as many of the tabs outward as necessary so that the sleeve is firmly secured to the dashboard.
   d. Install support strap to make the unit more stable.



CAUTION! Be careful not to damage the car wiring.

4. Place the radio in front of the dashboard opening so the wiring can be brought through the mounting sleeve.

Wiring

Complete wiring as illustrated in the wiring diagram on page 3. Once the wiring is complete, reconnect the battery negative terminal. If there is no ACC available, connect the ACC lead to the power supply with a switch.

NOTE: When replacing a fuse, be sure to use correct type and amperage to avoid damaging the radio. The VM9511TS uses one 15 amp mini-ATM fuse, located in the black filter box in-line with the main wire harness.

Final Installation

After completing the wiring connections, turn the unit on to confirm operation (ignition switch must be on). If unit does not operate, recheck all wiring until problem is corrected. Once proper operation is achieved, turn off the ignition switch and proceed with final mounting of the chassis.

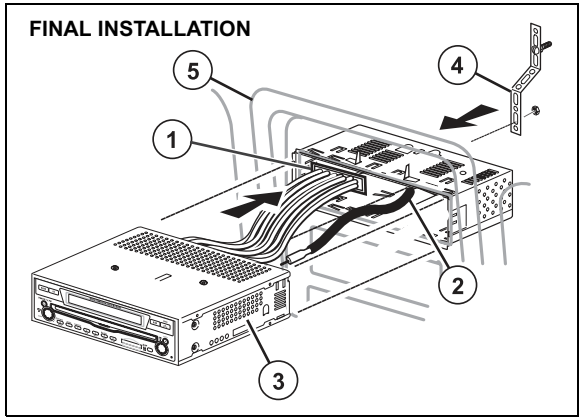
1. Connect wiring adapter to existing wiring harness.
2. Connect antenna lead.
3. Carefully slide the radio into the half-sleeve, making sure it is right-side-up, until it is fully seated and the spring clips lock it into place.

NOTE: For proper operation of the CD/DVD player, the chassis must be mounted within 20° of horizontal. Make sure the unit is mounted within this limitation.

4. Attach one end of the perforated support strap (supplied) to the screw stud on the rear of the chassis using the hex nut provided. Fasten the other end of the perforated strap to a secure part of the dashboard either above or below the radio using the screw and hex nut provided. Bend the strap to position it as necessary.

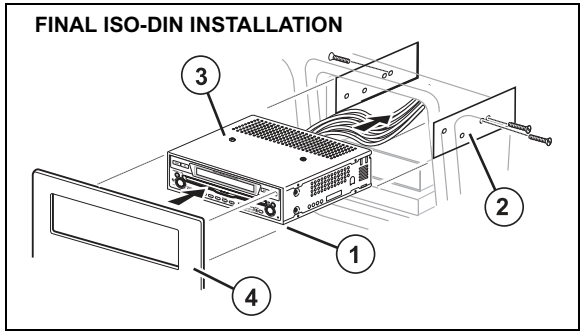
CAUTION! The rear of the radio must be supported with the strap to prevent damage to the dashboard from the weight of the radio or improper operation due to vibration.

5. Replace any items you removed from the dashboard.



Final ISO-DIN Installation

1. Remove trim ring.
2. Mount factory brackets on new radio using existing screws from old radio.
3. Slide radio chassis into dash opening and secure.
4. Reinstall dash panel.



Using the iAUX^3 External AV Connector

The iAUX^3 (sold separately) allows you to connect a variety of external devices, including a VCR, DVD player, portable MP3 player, etc., to your VM9511TS without removing the radio.

To install the iAUX^3, connect it to the AUX-IN cables on the back of the VM9511TS (see the Wiring Diagram on page 3), and then install the iAUX^3 in a location convenient for plugging in auxiliary devices.

CONTROLS AND INDICATORS

Button Operation

1. OPEN

Press to activate the automatic mechanical system and move the TFT monitor into viewing position. Press again to close the TFT.

2. WIDE/■ PICTURE

Press to adjust the display aspect of the picture to one of three settings: Cinema, Full, Normal or OFF. *Press and hold* to access picture settings.

3. (⩓)

Press to adjust the upward tilt angle of the screen one step at a time. *Press and hold* this button to *continuously* adjust the upward tilt or picture settings.

4. (⩔)

Press to adjust the downward tilt angle of the screen one step at a time. *Press and hold* this button to *continuously* adjust the downward tilt or picture settings.

5. DISP

Press to display system information on the screen.

6. VOL/LO/DX

Rotate to adjust the volume. *Press and release* to enter and/or confirm audio settings. *Press and hold* to activate the Local (LOC) setting.

7. POWER/MUTE

Press once to turn the unit on. Press again to mute the volume. *Press and hold* to turn the unit off.

8. 1/AUDIO

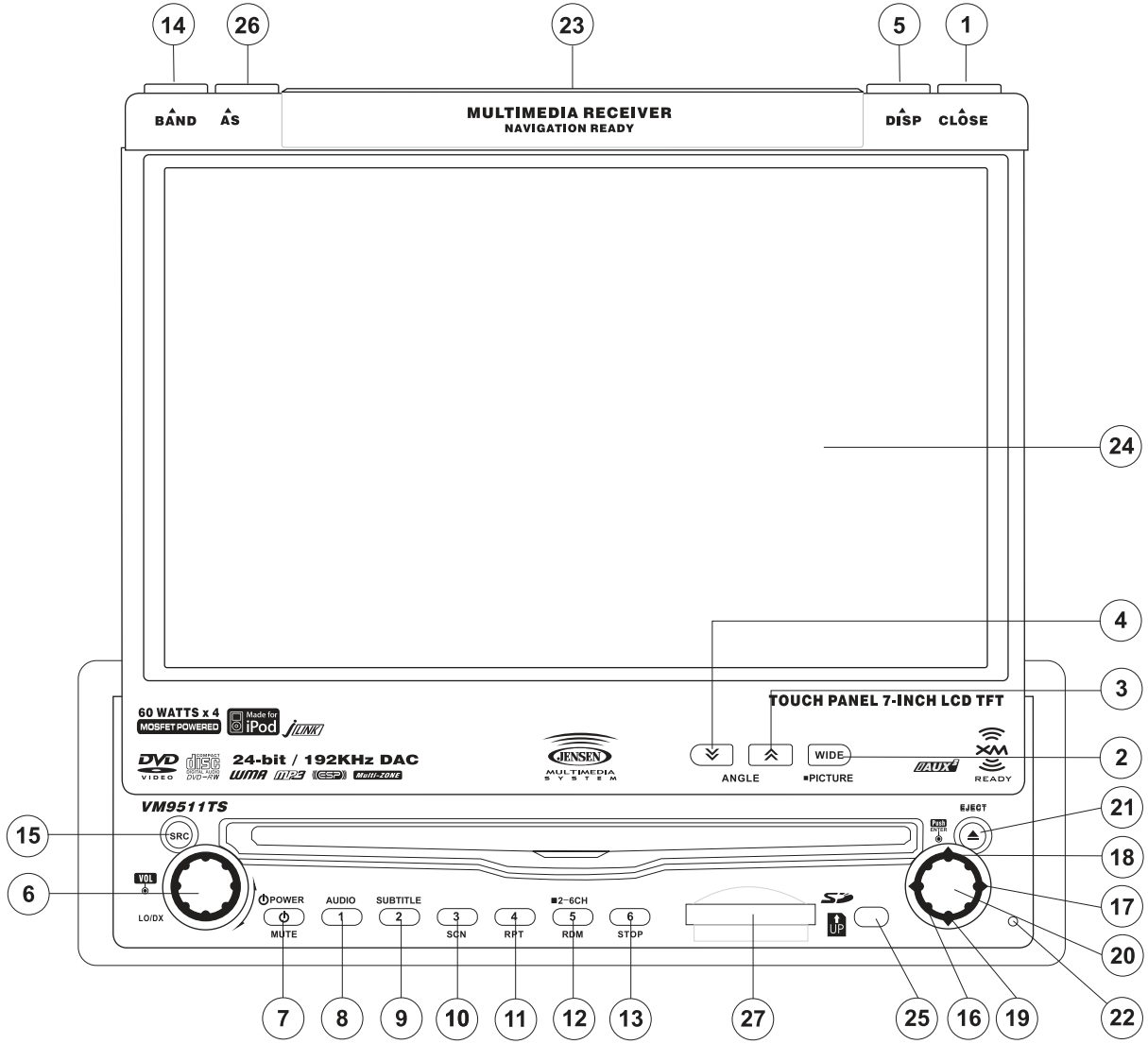
DVD Mode: Press to select audio language during playback.

TUNER Mode: Press once to play preset radio station channel 1. *Press and hold* to store the current radio station in preset channel 1.

9. 2/SUBTITLE

DVD Mode: Press once to select the subtitle language during playback.

TUNER Mode: Press once to play preset radio station channel 2. *Press and hold* to store the current radio station in preset channel 2.



CONTROLS AND INDICATORS

10. 3/SCN

DVD Mode: Press once to start scan playback.

TUNER Mode: Press once to play preset radio station channel 3. *Press and hold* to store the current radio station in preset channel 3.

11. 4/RPT

DVD Mode: Press once to start repeat playback.

TUNER Mode: Press once to play preset radio station channel 4. *Press and hold* to store the current radio station in preset channel 4.

12. 5/2-6CH/RDM

DVD Mode: Press once for random playback.

TUNER Mode: Press once to play preset radio station channel 5. *Press and hold* to store the current radio station in preset channel 5.

CD Mode: *Press and hold* to switch between 2 channel & 6 channel audio output.

13. 6/STOP

DVD Mode: Press once to stop playback.

TUNER Mode: Press once to play the preset radio station channel 6. *Press and hold* to store the current radio station in preset channel 6.

14. BAND

TUNER Mode: Press to switch between FM and AM.

15. SRC

Press once to select playing mode.

Press and hold to toggle rear zone mode On/0ff.

16. (◀)

DVD Mode: Press once to play back the previous chapter/ track.

TUNER Mode: Press once to auto-search for the previous available radio station.

MENU Mode: Press once to move the cursor to the left.

17. (▶)

DVD Mode: Press once to enter the next chapter or track.

TUNER Mode: Press once to auto-search the next available radio station.

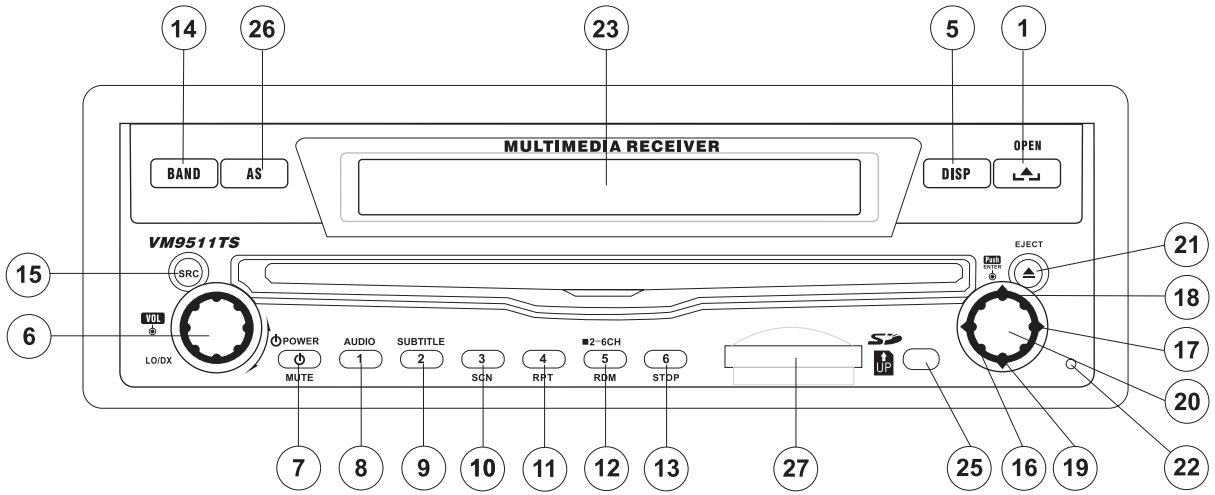
MENU Mode: Press once to move the cursor to the right.

18. (▲)

DVD Mode: Press once for fast forward/fast reverse.

TUNER Mode: Press to go up one frequency step.

MENU Mode: Press once to move the cursor up.



19. (▼)

DVD Mode: Press once for slow forward/slow reverse.

TUNER Mode: Press to go down one frequency step.

MENU Mode: Press once to move the cursor down.

20. PLAY/ENTER

DVD Mode: Press once to start a playback.

Press once to confirm a selection.

21. (⏏)

Press once for disc insertion/ejection.

Press and hold to reset core mechanism position.

22. RESET

Press to reset system settings to factory default (except the password and parental lock setting).

23. LCD Display

24. TFT Display

25. IR Remote Control Receiver

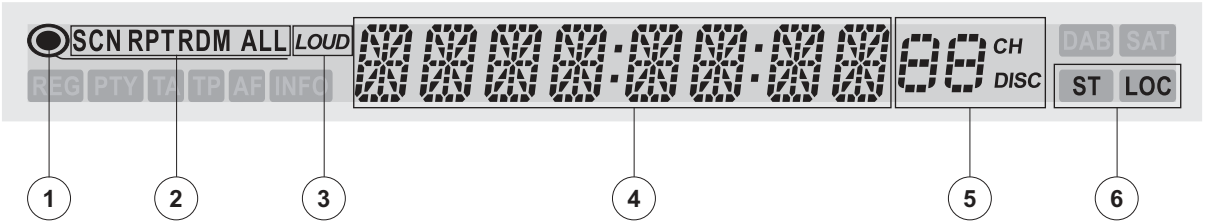
26. AS (Auto Store)

Press to automatically store strong radio stations in the six preset channels in the current band.

27. SD Card Slot

CONTROLS AND INDICATORS

LCD Display/Indicators



1. Disc Indicator

Illuminated when disc is loaded

2. DVD Playback Indicators (SCN/RPT/RDM/ALL)

The following DVD playback indicators become Illuminated when the corresponding function is active:

- SCN: scan playback
- RPT: repeat playback
- RDM: random playback
- ALL: playback all chapters

3. Loudness Indicator (LOUD)

The loudness indicator becomes illuminated when the LOUD function is activated.

4. Main Display

The main display is an 8 digit, 14 segment LCD which displays the time, tuning frequency and other text information.

5. Channel/Disc Display

The channel/disc display is a 2 digit, 7 segment LCD display which displays the disc number or radio channel indicators when the corresponding function is active:

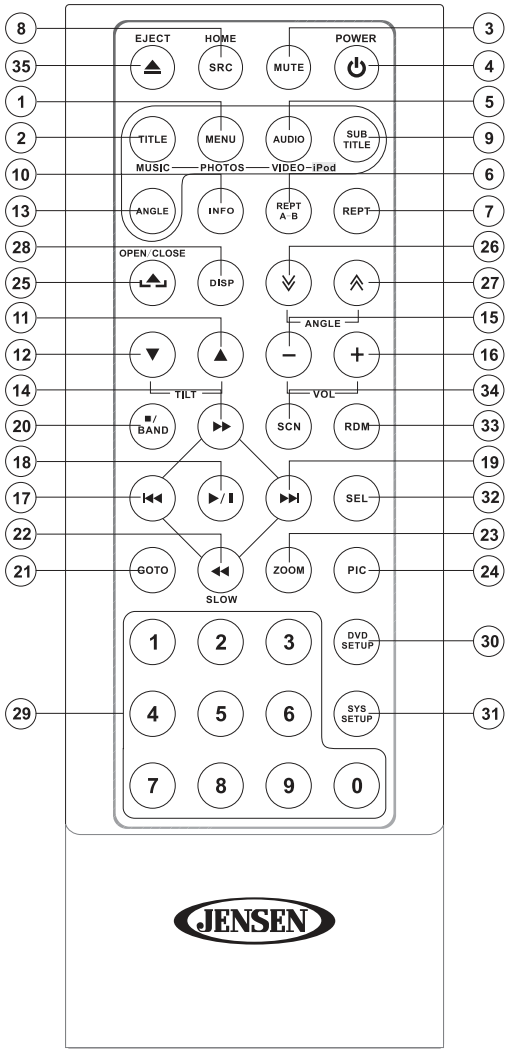
- CH: radio is activated
- DISC: DVD mode is activated

6. Stereo/Local Indicator

The stereo/local indicator illuminates one of the following indicators when the corresponding function is active:

- ST: radio is in stereo mode
- LOC: local radio station seeking function is activated

FRONT ZONE REMOTE CONTROL



NOTE: Your remote control may differ slightly from the one pictured here. The above diagram is for illustrative purposes only.

Table 1: Front Zone Remote Control Functions

Button		Function						
Name	**Ref#**	**DVD**	**VCD**	**TUNER**	**CD/MP3**	**TV**	**XM**	**iPod**
MENU	1	Enters the main menu of the disc	Turns on PBC when playing VCD				Displays XM Setup Menu	Selects Photo mode
TITLE	2	Enters the title menu of the disc	Plays first ten seconds of each chapter/title					Selects Music mode
MUTE	3	Toggles on/off audio output	Toggles on/off audio output	Toggles on/off audio output	Toggles on/off audio output	Toggles on/off audio output	Toggles on/off audio output	Toggles on/off audio output
POWER/⏻	4	Turns the power on/off	Turns the power on/off	Turns the power on/off	Turns the power on/off	Turns the power on/off	Turns the power on/off	Turns the power on/off
AUDIO	5	Changes the audio language for disc playback						Selects Video mode
REPT A-B	6	Setup to repeat playback from time frame A to time frame B	Setup to repeat playback from time frame A to time frame B					
REPT	7	Repeats playback of current chapter	Repeats playback of current chapter		Repeats playback of current track		Selects Category Mode	Repeats playback of current track
SRC	8	Selects playing mode	Selects playing mode	Selects playing mode	Selects playing mode	Selects playing mode	Selects playing mode	Selects playing mode
SUBTITLE	9	Language selection for subtitle						
INFO	10	Displays playing information	Displays playing information	Displays playing information	Display playing information	Displays playing information	Displays playing information	Displays playing information
ANGLE ▲	11	Continuously adjusts front panel tilt angle	Continuously adjusts front panel tilt angle	Continuously adjusts front panel tilt angle	Continuously adjusts front panel tilt angle	Continuously adjusts angle of TFT screen	Continuously adjusts angle of TFT screen	Continuously adjusts angle of TFT screen
ANGLE ▼	12	Continuously adjusts front panel tilt angle	Continuously adjusts front panel tilt angle	Continuously adjusts front panel tilt angle	Continuously adjusts front panel tilt angle	Continuously adjusts angle of TFT screen	Continuously adjusts angle of TFT screen	Continuously adjusts angle of TFT screen
ANGLE	13	Plays back disc in different angle for a scene	Plays back Picture CD with different angle of picture displayed					
▶▶	14	Fast forwards the disc content	Fast forwards the disc content		Fast forwards the disc content			Accesses iPod Menu
VOL -	15	Decreases volume	Decreases volume	Decreases volume	Decreases volume	Decreases volume	Decreases volume	Decreases volume
VOL +	16	Increases volume	Increases volume	Increases volume	Increases volume	Increases volume	Increases volume	Increases volume
⏮	17	Selects the previous chapter for playback	Selects the previous chapter for playback	Searches an available radio station by decreasing tuning frequency	Selects the previous track for playback	Searches an available TV station by decreasing tuning frequency	Searches an available radio station by decreasing tuning frequency	Pauses playback/starts playback
▶/⏸	18	Pauses playback/starts playback	Pauses playback/starts playback	Scans FM/AM radio station; plays/stores radio station; deletes radio station	Pauses playback/starts playback	Scans TV station; plays/stores TV station; deletes TV station	Scans XM radio station; plays/stores radio station; deletes radio station	
⏭	19	Selects the next chapter for playback	Selects the next chapter for playback	Searches an available radio station by increasing tuning frequency	Selects the next track for playback	Searches an available TV station by increasing tuning frequency	Searches an available radio station by increasing tuning frequency	Selects the next track for playback
■ / BAND	20	Stops playback	Stops playback	Selects FM/AM band	Stops playback		Selects XM, XM1, XM2, or XM3 band	

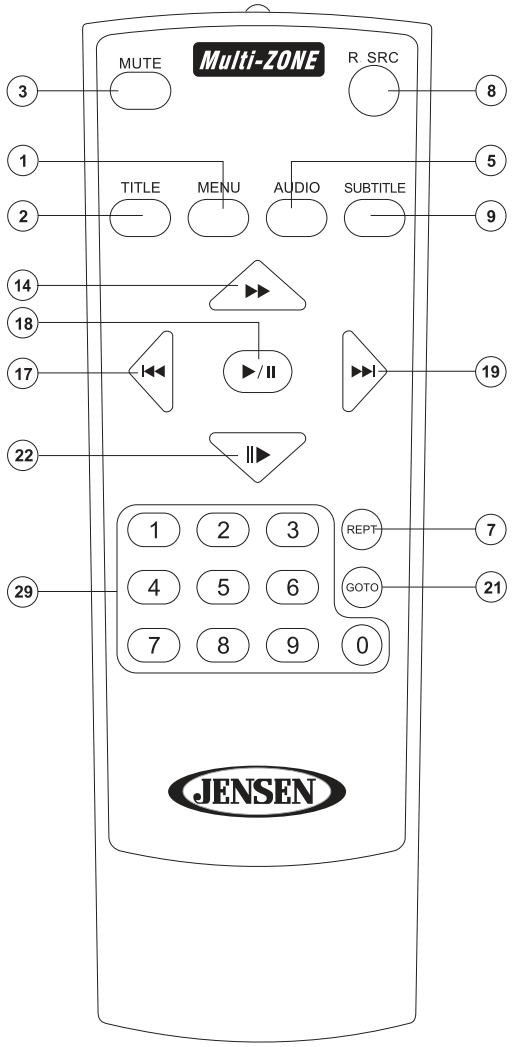
Table 1: Front Zone Remote Control Functions

Button		Function						
Name	**Ref#**	**DVD**	**VCD**	**TUNER**	**CD/MP3**	**TV**	**XM**	**iPod**
GOTO	21	Goes to specific time frame and playback	Goes to specific time frame and playback					
◂◂	22	Slow playback/slow rewind playback	Slow playback/slow rewind playback					
ZOOM	23	Zooms in/out on an image	Zooms in/out on an image					
PIC	24	Displays set-up parameters	Displays set-up parameters					
OPEN/ CLOSE	25	Opens/closes the TFT monitor	Opens/closes the TFT monitor	Opens/closes the TFT monitor	Opens/closes the TFT monitor	Opens/closes the TFT monitor	Opens/closes the TFT monitor	Opens/Closes the TFT monitor
⩛	26	Decreases monitor tilt angle	Decreases monitor tilt angle	Decreases monitor tilt angle	Decreases monitor tilt angle	Decreases monitor tilt angle	Decreases monitor tilt angle	Decreases monitor tilt angle
⩚	27	Increases monitor tilt angle	Increases monitor tilt angle	Increases monitor tilt angle	Increases monitor tilt angle	Increases monitor tilt angle	Increases monitor tilt angle	Increases monitor tilt angle
DISP	28	Selects display mode: CINEMA, WIDE, NORMAL or Off (Standby)	Selects display mode: CINEMA, WIDE, NORMAL or Off (Standby)	Selects display mode: CINEMA, WIDE, NORMAL or Off (Standby)	Selects display mode: CINEMA, WIDE, NORMAL or Off (Standby)	Selects display mode: WIDE or OFF	Selects display mode: WIDE or OFF	Selects display mode: WIDE or OFF
1, 2, 3, 4, 5, 6, 7, 8, 9, 0 (Numeric Keypad)	29	Directly accesses chapter		1-6 selects preset for current band	Directly accesses track	1-6 selects preset TV stations	1-6 selects preset for current band	
DVD SETUP	30	Displays DVD Setup menu	Displays DVD Setup menu	Displays DVD Setup menu	Displays DVD Setup menu	Displays DVD Setup menu	Displays DVD Setup menu	Displays DVD Setup menu
SYS SETUP	31	Displays System Setup menu	Displays System Setup menu	Displays System Setup menu	Displays System Setup menu	Displays System Setup menu	Displays System Setup menu	Displays System Setup menu
SEL	32							
RDM	33	Plays all chapters in random order			Plays all tracks in random order			Plays all tracks in random order
SCN	34				Plays the first ten seconds of each track			
EJECT	35	Ejects disc	Ejects disc	Ejects disc	Ejects disc	Ejects disc	Ejects disc	Ejects disc

MULTI-ZONE REMOTE CONTROL

Table 2: Multi-Zone Remote Control Functions

Button		Function	
Name	**Ref #**	**DVD**	**VCD**
MENU	1	Enters the main menu of the disc	Turns on PBC when playing VCD
TITLE	2	Enters the title menu of the disc	Plays first ten seconds of each chapter/title
MUTE	3	Toggles on/off audio output	Toggles on/off audio output
AUDIO	5	Switches the audio language for disc playback	
REPT	7	Setup to repeat playback of each chapter/title/disc	Setup to repeat playback of each chapter/title/disc
R.SRC	8	Selects playing mode for rear zone	Selects playing mode for rear zone
SUBTITLE	9	Language selection for subtitle	
▶▶	14	Fast forwards the disc content	Fast forwards the disc content
⏮	17	Selects the previous track/chapter for playback	Selects the previous track/chapter for playback
▶/II	18	Pauses playback/Starts playback	Pauses playback/Starts playback
⏭	19	Selects the next track/chapter for playback	Selects the next track/chapter for playback
GOTO	21	Goes to specific time frame and playback	Goes to specific time frame and playback
II▶	22	Slow playback/slow rewind playback	Slow playback/slow rewind playback
1, 2, 3, 4, 5, 6, 7, 8, 9, 0 (Numeric Keypad)	29	Directly accesses chapter	



NOTE: Your remote control may differ slightly from the one pictured here. The above diagram is for illustrative purposes only.

USING THE TFT MONITOR

Open/Close TFT Monitor

Open TFT Monitor

Press the **OPEN** button (1) on the front panel or press the (▲) button (25) of the front zone remote control to activate the mechanism that moves the display panel into the viewing position.

Close TFT Monitor

Press the **OPEN** button (1) on the front panel or press the (▲) button (25) of the front zone remote control to load the display panel back into the compartment.

TFT Monitor Auto Open

If “TFT Auto Open” is “on” when the unit is turned on, the monitor automatically moves to the viewing position.

If “TFT Auto Open” is ”off” when the unit is turned on, press the **OPEN** button (1) or (▲) button (25) on the front zone remote control to move the monitor into the viewing position.

If “TFT Auto Open” is set to ”Manual”, the TFT will not close when the key is turned off.

Reverse Driving Use

If the rear-view video camera is connected, the unit is on, and the monitor is stationed inside the main compartment of the unit, the monitor automatically moves into the viewing position and switches to CAMERA mode upon reverse driving. When the reverse driving stops, the monitor returns to the main storage compartment.

If the monitor is in display mode, the monitor automatically switches to CAMERA mode upon reverse driving. When the reverse driving stops, the monitor return to its original input mode.

Monitor Tilt Angle Adjustment

A known characteristic of LCD panels is the quality of the display in relationship to the viewing angle. The monitor angle can be adjusted for optimum viewing using one of the following methods:

Step by Step Angle Adjustment

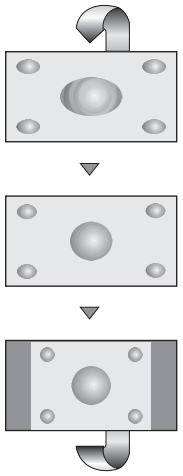
Press the (⩓) or (⩔) button (3, 4) on the monitor frame to adjust the tilt angle of the screen one step at a time.

Continuous Angle Adjustment

Press and hold the (⩓) or (⩔) button (3, 4) on the monitor frame to adjust the tilt angle in a continuous motion.

Aspect Ratio

Press the **DISP** button (28) on the remote control or **WIDE/ PICTURE** button (2) on the monitor to adjust the aspect ratio as follows:



CINEMA
The entire screen is extended horizontally to the aspect ratio of 16 to 9. The extension ratio is the same at any point.

WIDE
The screen is extended horizontally to the aspect ratio of 16 to 9. The extension ratio increases toward the right and left ends of the screen.

NORMAL
The conventional display image has a 4 to 3 ratio of horizontal to vertical, leaving a blank area on the right and left sides of the display.

OFF

Image Setting

Table 3 shows the video output mode for each playing source.

Table 3: Video Output Modes

Playing Source	Video Output Modes
AM/FM TUNER	RGB Mode
XM TUNER	RGB Mode
iPod	RGB Mode
DVD	RGB Mode
NAV	RGB Mode
TV	CVBS Mode
AUX IN	CVBS Mode
CAMERA	CVBS Mode

*CVBS – Composite Video Baseband Signal

Adjustable Parameters

While in DVD or TUNER mode, the only parameter that can be adjusted is brightness (BRIGHT). To access “PICTURE”, “COLOR”, “CONTRAST”, and “TINT” you must be in AUX, CAMERA or TV Tuner mode.

NOTE: The default adjustment is “0” in PAL mode. Tint is unavailable for adjustment.

Parameter Adjustment Procedure

1. **Enter Picture Quality Setting mode:**
   Press the **PIC** button (24) on the remote or *press and hold* the **WIDE/PICTURE** button (2) on the monitor panel.
2. **Select Item to Set:**
   Press the (**>>**) (**<<**) buttons (14, 22) on the remote or *press and hold* the (**/**) or (**V**) buttons (18, 19) on the monitor panel.
3. **Set Parameters:**
   Press (**|<<**) (**>>|**) buttons (17, 19) on the remote or press (**<**) (**>**) buttons (16, 17) on the monitor panel.
4. **Exit Picture Quality Setting Mode:**
   Press the **PIC** button (24) on the remote or *press and hold* the **WIDE/PICTURE** button (2) on the monitor panel.

Parking Brake

Parking Brake Inhibit

When the pink "Parking" wire is connected to the vehicle brake switch, the front TFT monitor will display video only when the parking brake sequence is engaged. Before starting the parking brake sequence, the radio must be on with the video media disc inserted and playing.

Parking Brake Sequence

There are two situations that can start the Parking Brake Sequence:

- Parking brake is engaged (on) when the vehicle is started or the accessory/ignition is turned on. To activate video, the following sequence of events must be completed:
  a. Release parking brake for 2 seconds.
  b. Reapply the parking brake for 2 seconds.
  c. Video should be displayed on the TFT monitor within 1 ~ 2 seconds.
- Parking break is disengaged (off) when the vehicle is started or the accessory/ignition is turned on. To activate video, the following sequence of events must be completed:
  a. Set parking brake for 2 seconds.
  b. Release parking brake for 2 seconds.
  c. Reapply parking brake.

d. Video should be displayed on the TFT monitor within 1 ~ 2 seconds.

Monitor Movement Mechanism

If an obstruction occurs in the monitor path, the following protective measurements can be executed to prevent damage to the mechanism or monitor:

Table 4: Monitor Protective Measures

Obstruction	Self Protection	OPEN Button Pressed	Power Reconnected
Monitor loading out horizontally	Monitor is automatically loaded into unit	Monitor fully extended horizontally	Monitor is automatically loaded into unit
Monitor loading in horizontally	Unit stops at obstruction point	Monitor fully extended horizontally	Monitor is automatically loaded into unit
Monitor loading out vertically	Unit stops at obstruction point	Monitor swivels back to the unit	Monitor swivels back to the unit
Monitor loading in vertically	Unit stops at obstruction point	Monitor swivels back to the unit	Monitor swivels back to the unit

After the protective procedure is executed, normal operation is resumed by pressing the **OPEN** button (1) or disconnecting and reconnecting the power.

OPERATING INSTRUCTIONS

Power On / Off

Press the ⏻/**MUTE** button (7) to turn the unit on. The buttons on the front of the unit light up and "WELCOME" appears briefly in the LCD panel (23), followed by the current mode status. If the TFT screen is open, only the current mode status is displayed. You can also turn on the unit by pressing the **OPEN** button (1) and opening the TFT screen.

Press and hold the ⏻/**MUTE** button (7) on the front panel or the **POWER** button (4) on the remote to power off the unit.The monitor is drawn back into the main compartment and the LCD screen displays "BYE BYE".

Audible Beep Confirmation

An audible beep tone confirms each function selection. The beep tone cannot be disabled.

Mute

Press the ⏻/**MUTE** button (7) on the front panel or the **MUTE** button (3) on the remote to mute the volume from the unit. Press the **MUTE** button again to restore the volume. "MUTE" is displayed on the LCD monitor. Adjusting the volume or using any of the audio setup features cancels the mute function.

Playing Source Selection

Press the **SRC** button (15) on the front panel or the **SRC** button (8) on the remote to change between available playing sources in the following order: TUNER, DVD, CD Changer, AUX IN, CAMERA (rear view video camera) and SD. The playing mode is displayed on the TFT and LCD screens.

AUX IN Mode

An external peripheral device can be connected to this unit via RCA output and "AUX-IN".

CAMERA Mode

"CAMERA" mode is only available if the camera is connected and during reverse driving. To install a rear view video camera, connect the video input cable to the camera output cable.

Volume Adjustment

To increase or decrease the volume level, turn the **ROTARY ENCODER** (6) on the front panel or press the **VOL+/ VOL-** buttons (15, 16) on remote control. When the volume level reaches "0" or "40", a beep sounds, indicating that the adjustment limit has been reached. The volume ranges from "0" to "40". The LCD or TFT screen displays the volume level for 3 seconds.

Programmable Turn-On Volume

This feature allows the user to select a turn-on volume setting regardless of the volume setting prior to turning the unit off.

To program a specific volume level, push and hold the **VOL/ LO/DX** knob (6) while the yellow volume bar is displayed on the screen. The unit will beep two times to confirm your turn-on volume setting.

Audio Control Menu

The Audio Control feature allows you to easily adjust your audio system to meet the acoustical characteristics of your vehicle, which vary depending on the type of vehicle and its measurements. To get the best possible sound quality from your new system, be sure to adjust the settings for the speakers as well. Proper setting of the Fader and Balance boosts the effects of the cabin equalizer.

Accessing the Audio Control Menu

Press the **VOL/LO/DX** knob (6) on the front panel once to display the "AUDIO" menu.

Selecting an Audio Feature for Adjustment

Continuously press the **VOL/LO/DX** knob (6) on the front panel, or press the (**>>**)/(**<<**) buttons (14, 22) on the remote control or the (Λ)/ (**V**) buttons (18, 19) on the joystick to select the audio feature to be adjusted.

Adjusting an Audio Feature

Rotate the **VOL/LO/DX** knob (6), press the (**|<<**)/(**>>|**) buttons (17, 19) on the remote control, or press the (**<**)/(**>**) buttons (16, 17) on the joystick to adjust the selected feature to the desired setting.

Table 5: Audio Adjustments

Audio Function	Adjustable Range
EQ	User
	Flat
	Jazz
	Pop
	Classical
	Rock
	Vocal
BASS	-14 to +14
TREBL	-14 to +14
SUB	-7 to +7
LOUD	0 (off), 1-4
FAD (Fade)	-9 to +9
BAL	-9 to +9

NOTE: The Bass and Treble levels are only adjustable when EQ is set to "User" mode.

The Loud function compensates for deficiencies in sound ranges at low levels. Loudness levels range from 1-4 or "off". When the Loud function is on, "LOUD" is displayed on the screen.

Exiting the Audio Control Menu

Press and hold the **VOL/LO/DX** knob (6) or stop making adjustments for a few seconds to exit the audio control menu.

Six-Channel Audio Control

NOTE: Before adjusting the volume of any speaker, please refer to "Surround Sound" on page 26.

Table 6: 6-Channel Audio Adjustments

Item	Adjustable Range
Master Volume	00 to 40
Front Left Channel Volume	-10 to +10
Front Right Channel Volume	-10 to +10
Rear Left Channel Volume	-10 to +10
Rear Right Channel Volume	-10 to +10
Center Channel Volume	-10 to +10
Subwoofer Volume	-10 to +10

Rear Zone

If a monitor is installed in the rear zone and connected to the rear zone AV output, passengers in the back seat can control the DVD output using the rear zone remote control. See "Multi-Zone Remote Control" on page 12 for instructions.

System Reset

[RESET] Button

To correct a system halt or other illegal operation, use the tip of a pen to press the **RESET** button (22) located on the front bottom-right corner of the unit. After a system reset, the unit restores all factory default settings.

NOTE: If the unit is reset while a DVD is playing, the DVD resumes play once the reset is complete.

Line Mute

If the "MUTE" wire is connected, audio output mutes when a telephone call is received by the car phone or when verbal navigation is performed.

SYSTEM SETUP MENU

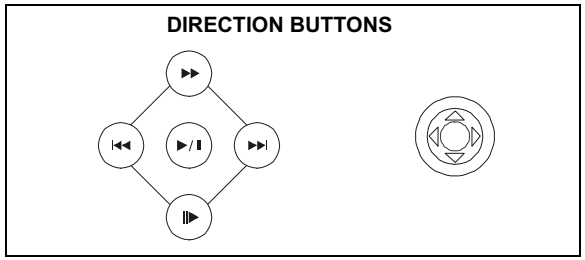
In “System Setup” mode, “ASP CONFIG” and “GENERAL SETUP” are available for adjustment. Setup can be performed by pressing the dedicated button on the remote control or by touching the top left corner of the TFT screen.

For system settings, press the **SYS SETUP** button (31) on the remote control or touch “SETUP” on the screen to enter the “SETUP” menu. “SYS SETUP” is highlighted in green.

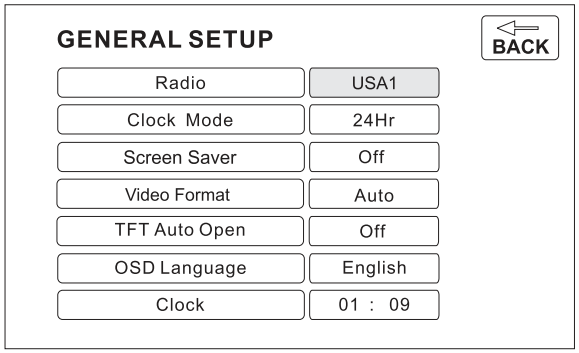
General Setup Menu

Accessing the General Setup Menu

To access the “GENERAL SETUP” Menu, press the direction buttons on the joystick (16, 17, 18, 19) or remote control (14, 17, 18, 19, 22) to highlight “GENERAL SETUP” in green.



Press the **>/||** button (18) on the remote control to enter the “GENERAL SETUP” menu. A menu appears with the option for the first item, “Radio”, highlighted in light blue.



Selecting a Feature for Adjustment

Press the **>>** or **<<** buttons (14, 22) on the remote control or the **/** or **V** buttons (18, 19) on the joystick to select the feature to be adjusted.

Adjusting a Feature

1. Enter the option field for the feature you want to adjust by pressing the **>/||** button (18) on the remote or by pressing the **ENTER** (joystick) button (20) on the unit. A submenu appears in a second row with the selected option highlighted in light blue.
2. Select a new value by pressing the **>>** or **<<** buttons (14, 22) on the remote control or the **/** or **V** buttons (18, 19) on the joystick.
3. Confirm your selection by pressing the **<<**, **|<<**, or **>>|** buttons (14, 17, 19) on the remote control, or the **<** or **>** button (16, 17) on the joystick. The new value is highlighted in light blue and setup is complete.

Table 7: General Setup Menu Features

Setting	Options	Function
Radio	USA	• AM Frequency Spacing - 10kHz • AM Frequency Band - 530kHz~1720kHz • FM Frequency Spacing - 200kHz • FM Frequency Band - 87.5MHz~107.9MHz
	Europe	• AM Frequency Spacing - 9kHz • AM Frequency Band - 522kHz~1620kHz • FM Frequency Spacing - 50kHz • FM Frequency Band - 87.5MHz~108.0MHz
	South America 1	• AM Frequency Spacing - 10kHz • AM Frequency Band - 530kHz~1720kHz • FM Frequency Spacing - 100kHz • FM Frequency Band - 87.5MHz~108.0MHz
	South America 2	• AM Frequency Spacing - 5kHz • AM Frequency Band - 520kHz~1600kHz • FM Frequency Spacing - 100kHz • FM Frequency Band - 87.5MHz~108.0MHz
	Arabia	• AM Frequency Spacing - 9kHz • AM Frequency Band - 531kHz~1620kHz • FM Frequency Spacing - 100kHz • FM Frequency Band - 87.5MHz~108.0MHz
	Korea	• AM Frequency Spacing - 9kHz • AM Frequency Band - 531kHz~1602kHz • FM Frequency Spacing - 200kHz • FM Frequency Band - 88.1MHz~107.9MHz
	China	• AM Frequency Spacing - 9kHz • AM Frequency Band - 522kHz~1620kHz • FM Frequency Spacing - 100kHz • FM Frequency Band - 87.5MHz~108.0MHz
Clock Mode	12H	Clock displays 12 hour time using AM and PM.
	24H	Clock displays 24 hour time up to 23:59.
Screen Saver	On	Turn screen saver on/off.
	Off	
Video Format (Input circuitry auto-detects the video signal from the CAMERA and Aux In video source. Video format does not affect the TV tuner - this is an NTSC TV tuner only.	Auto	The color signal output is switched automatically based on the current video input signal - NTSC or PAL.
	NTSC	The color signals are output in the standard NTSC format.
	PAL	The color signals are output in the standard PAL format.
TFT Auto Open	On	The TFT panel automatically opens when the unit is turned on.
	Off	You must press the OPEN button (1) to open the TFT panel.
	Manual	When the ignition is turned OFF, the TFT panel DOES NOT retract if it was previously out
OSD Language	English	The menus are displayed in English only.
Clock	(HH:MM)	See “Adjusting the clock” to learn how to set the clock.
BACK		Return to previous menu.

Adjusting the Clock

1. Access the “Clock” setting under the General Setup menu.
2. Press the **>>** or **<<** buttons (14, 22) on the remote control or the **/** or **V** buttons (18, 19) on the joystick to move the cursor to the “Hour” or “Min” position.
3. Press the **|<<** or **>>|** buttons (17, 19) on the remote control or the **<** or **>** buttons (16, 17) on the joystick to adjust the hour or minutes.
4. Press the **<<** button (14) on the remote control to confirm setup.

Returning to the System Setup Menu

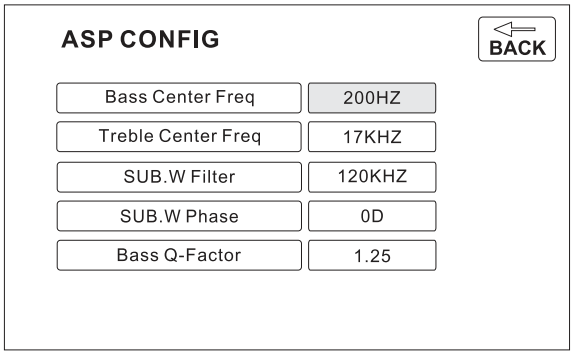
To return to the System Setup menu, move to “BACK”, then press the **>/||** button (18) on the remote control.

ASP (Audio Sound Processing) Config Menu

The ASP Config Menu allows you to make fine audio adjustments.

Accessing the ASP Config Menu

To access the “ASP CONFIG” Menu from the “SYSTEM SETUP” menu, press the direction buttons on the joystick (16, 17, 18, 19) or remote control (14, 17, 18, 19, 22) to highlight “ASP CONFIG” in green. Press the **>/||** button (18) on the remote control to enter the “ASP CONFIG” menu. A menu appears with the option for the first item, “Bass Center Freq”, highlighted in light blue.



Adjusting a Feature

1. Enter the option field for the feature you want to adjust by pressing the **>/||** button (18) on the remote or by pressing the **ENTER** (joystick) button (20) on the unit. A submenu appears in a second row with the selected option highlighted in light blue.
2. Select a new value by pressing the **>>** or **<<** buttons (14, 22) on the remote control or the **Λ** or **V** buttons (18, 19) on the joystick.
3. Confirm your selection by pressing the **<<**, **|<<**, or **>>|** buttons (22, 17, 19) on the remote control, or the **<** or **>** button (16, 17) on the joystick. The new value is highlighted in light blue and setup is complete.

Table 8: ASP Config Menu Features

Setting	Options	Function
Bass Center Freq	60Hz	According to the audio source, select the Bass Center Frequency to achieve the best Bass effect.
	80Hz	
	100Hz	
	130Hz	
	150Hz	
	200Hz	
Treble Center Freq	10KHz	According to the audio source, select the Treble Center Frequency to achieve the best Treble effect.
	12.5KHz	
	15KHz	
	17KHz	
Sub.W Filter	80Hz	Selecting a crossover frequency sets a cut-off frequency of the subwoofer's LPF (low-pass filter) and the “SMALL” speakers' HPF (high-pass filter). The Crossover frequency setting has no effect if the subwoofer is set to “OFF” and any other speaker is set to “LARGE”.
	120Hz	
	160Hz	
Sub.W Phase	0D	Subwoofer output IN phase
	180D	Subwoofer output OUT OF phase
		NOTE: Depending on your installation, reversing the subwoofer phase may increase Bass output.
Bass Q-Factor	1.0	When the Bass Center Frequency is selected, adjusting the Bass Q-Factor alters the sharpness of the Bass output.
	1.25	
	1.5	
	2.0	
BACK		Return to previous menu.

Screen Calibration

After entering calibration mode, a crosshair ┼ appears in a corner quadrant of the screen. To begin calibration, press and hold the crosshair for one second until it moves to the next quadrant. Continue for each quadrant until the calibration is completed.

Exiting the System Setup Menu

To exit setup mode and resume normal playback, press the **SYS SETUP** button (31) on the remote control or the **DISP** button (5) on the front panel.

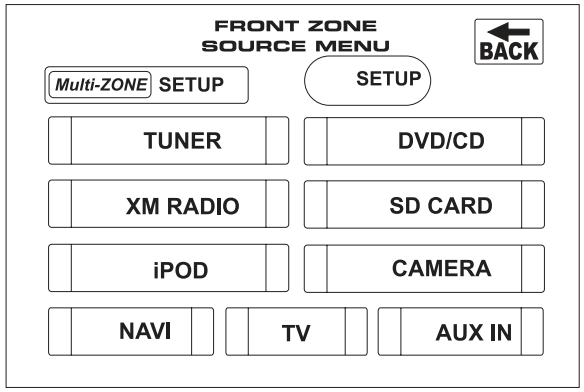
MULTI-ZONE OPERATION

Independent sources can be played simultaneously on the VM9511TS. For example, a video game console can be seen on the front screen while DVD video is available to rear passengers.

NOTE: If DVD is selected as the front source and SD Card is selected for the rear source, then both sources will switch to SD Card. If SD Card is selected as the front source and DVD is selected for the rear source, then both sources will switch to the DVD source. Since the multimedia processor is shared between optical and SD Card media, one or the other can be selected, but not both simultaneously.

Selecting a Source for the Front Zone

To access the FRONT ZONE SOURCE MENU, touch the TFT screen in the top left corner of the screen.



This menu allows you to select a source for the front zone.

Selecting a Source for the Rear Zone

The Multi-ZONE sources available for selection depends upon which Front Zone source is selected, as indicated in Table 9.

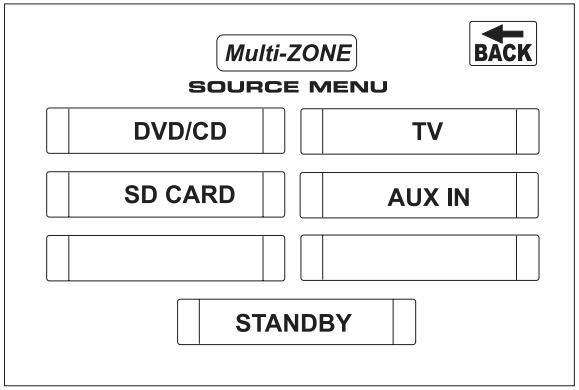
Table 9: Multi-ZONE Source Options

Front Zone Source	Available Multi-ZONE Sources
AM/FM Tuner	DVD/CD, SD Card, TV, Aux In, Nav
DVD/CD	DVD/CD, TV, Aux In, Nav
SD Card	DVD/CD, TV, Aux In, Nav
iPod	Aux In, Nav Voice Prompt
XM	Aux In, Nav Voice Prompt

Table 9: Multi-ZONE Source Options

Front Zone Source	Available Multi-ZONE Sources
TV	DVD/CD, Aux In, TV, Nav
Aux In	DVD/CD, TV, Aux In, Nav
Nav	DVD/CD, SD Card, Aux In, Nav Voice Prompt

To access the rear zone SOURCE MENU, touch the top right corner of the screen, near the Multi-ZONE icon.



Select the source to be directed to the rear Multi-ZONE RCA outputs.

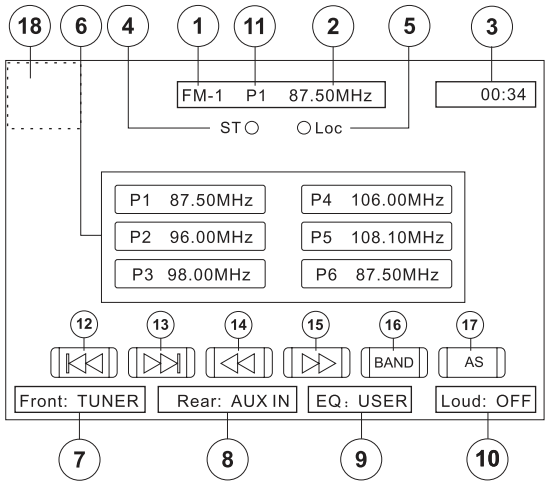
NOTE: Optical media and an SD Card cannot be selected from the Multi-ZONE Source Menu simultaneously.

NOTE: The AM/FM tuner graphics will change to a "blue screen" background when any optical or SD Card media is selected from the Multi-ZONE menu. In addition, only the top left (Front Zone Source Menu) and right (Multi-ZONE Source Menu) quadrants of the touch screen are active during this mode of operation.

TUNER OPERATION

Tuner TFT Display

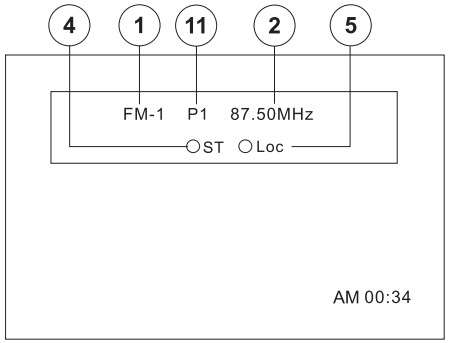
Default TFT Tuner Display



1. Current Radio Band Indicator
2. Radio Frequency Indicator
3. Clock
4. Stereo Broadcasting Indicator
5. Strong Local Signal Broadcasting Indicator: Touch and hold to activate/deactivate Local function
6. Preset Radio Stations: Touch to recall preset stations or touch and hold to store a station
7. Front Zone Playing Mode
8. Rear Zone Playing Mode
9. User Defined Equalizer Level
10. Loud Setting Indicator
11. Current Preset Station Indicator
12. **|<<**: Touch to seek backward
13. **>>|**: Touch to seek forward
14. <<: Touch to tune backward one step
15. **>>**: Touch to tune forward one step
16. **BAND**: Touch to change between AM/FM bands
17. **AS**: Touch to automatically store stations
18. Touch this area to return to the MAIN MENU

Alternate TFT Tuner Display

The VM9511TS offers an alternate display for the AM / FM tuner interface that is less bright than the default tuner display and is more appropriate for night driving.



To activate this feature, open the TFT screen and then press and hold the **DISP** button (5) for more than one second. To deactivate, press and hold the **DISP** button again.

Switch to Radio Tuner source

Press the **SRC** button (15) on the front panel or remote control (8) to switch to the TUNER source.

Select FM/AM Band

Touch the **BAND** button (16) on the screen, or press the **BAND** button on the unit (14) or remote control (20) to change between the following bands: FM1, FM2, FM3, AM1, and AM2.

Auto Tuning

Press and hold the **>>|** button (19) on remote control or screen, or the **>** button on the joystick (17) to seek the next available radio station by increasing the tuning frequency. Press the button again to stop searching.

Press and hold the **|<<** button (17) on the remote control or screen, or the < button on the joystick (16) to seek the next available radio station by decreasing the tuning frequency. Press the button again to stop searching.

Manual Tuning

Press the >> or << buttons (14, 22) on the remote control or screen, or the **Λ** or **V** buttons (18, 19) on the joystick to increase or decrease the tuning frequency one step.

Press and hold the buttons to continuously tune until you release them.

Using Preset Stations

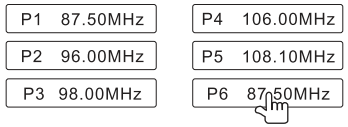
Six numbered preset buttons store and recall stations for each band. All six stored stations (P1-P6) for the current band appear on the screen.

Storing a Station

1. Select a band (if needed), then select a station.
2. Touch and hold an on-screen preset button (6) for three seconds. The preset number appears at the top of the screen.

Recalling a Station

1. Select a band (if needed).
2. Touch an on-screen preset button (6) to select the corresponding stored station.



Auto Store (AS)

Automatic Storing of Preset Stations

To select six strong stations and store them in the current band:

1. Select a band (if needed).
2. Touch **AS** (26) for 2 seconds to activate the Auto Store function.

The new stations replace stations already stored in that band.

Local Radio Station Seeking (LOC)

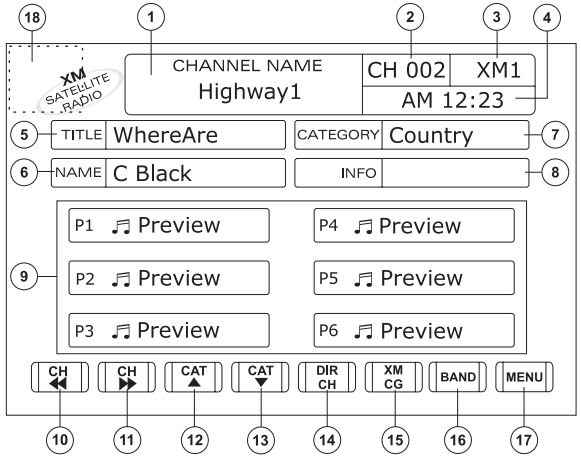
When the Local function is on, only radio stations with a strong radio signal are played. To activate the Local function in AM/FM tuner mode, *press and hold* the **VOL/LO/DX** knob (6) on the front panel while the yellow volume bar IS NOT visible. Press **VOL/LO/DX** again to turn Local off. When the Local function is active, “LOC” appears on the screen and a green indicator is illuminated.

XM RADIO OPERATION

Listeners can subscribe to XM® Radio on the Web by visiting www.xmradio.com, or by calling (800) 967-2346. Customers should have their Radio ID ready (see "Displaying the Identification (ID) Code"). Customers can receive a limited number of free-to-air channels without activation.

Accessing XM® Radio Mode

Press the **SRC** button (15) on the front panel or remote control (8) to switch to the XM source.



1. XM channel name
2. XM channel number
3. XM band
4. Time
5. Song title
6. Artist name
7. Song category
8. Data services information
9. Current preset channels/on-screen preset buttons
10. **CH <<**: Select the previous channel
11. **CH >>**: Slect the next channel
12. **CAT /**: Select next channel in current category only
13. **CAT V**: Select previous channel in current category only
14. **DIR CH**: Press to enter channel directly using keypad on screen
15. **XM CG**: Access Channel/Category Guide mode
16. **BAND**: Change between XM, XM1, XM2 and XM3 bands
17. **MENU**: Access the XM Setup Menu
18. Touch this area to return to the MAIN MENU

Displaying the Identification (ID) Code

Before you listen to XM® Radio, you must subscribe to the service using your radio's identification number. To display the radio ID, press the **<** or **>** buttons (16, 17) on the joystick or the **CH <<** or **CH >>** buttons on the touch screen repeatedly to tune to channel "000". The screen displays the 8-character XM radio ID under "CHANNEL NAME".

Selecting a Station

Press the **<** or **>** buttons (16, 17) on the joystick, the **|<<** or **>>|** buttons (17, 19) on remote control, or the **CH <<** or **CH >>** buttons on the touch screen to change to another station.

Preset Mode

To enter preset mode, touch the **BAND** button on the screen, or press the **BAND** button on the unit (14) or remote control (20) to change between the following bands: XM1, XM2, or XM3 (indicated in the top right corner of the TFT screen).

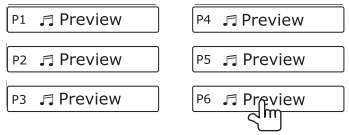
Six numbered preset buttons store and recall stations for each band. All six stored stations (P1-P6) for the current band appear on the TFT screen.

Storing a Station

1. Select a band (if needed), then select a station.
2. Touch and hold an on-screen preset button for three seconds. The preset number appears at the top of the screen.

Recalling a Station

1. Select a band (if needed).
2. Touch an on-screen preset button to select the corresponding stored station.



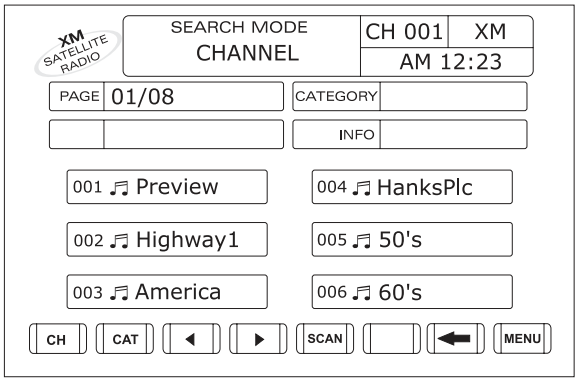
Channel/Category Guide Mode

There are two search modes to help navigate through channels and or categories. To access the Channel/Category Guide mode press, the **ZOOM** button (23) on the remote control or the **XM CG** button on the touch screen.

Channel Guide is the default search mode. To access Category Guide, press the **TITLE** button (2) on the remote control or touch **CAT** on the touch screen. To return to Channel Guide, press the **SUBTITLE** button (9) on the remote control.

Channel Guide Mode

When Channel Guide mode is selected, "Search Mode" and "CHANNEL" appear in the top half of the user interface. "XM" appears in the top right corner and the first six XM channels are displayed in the boxes in the bottom half of the TFT screen.

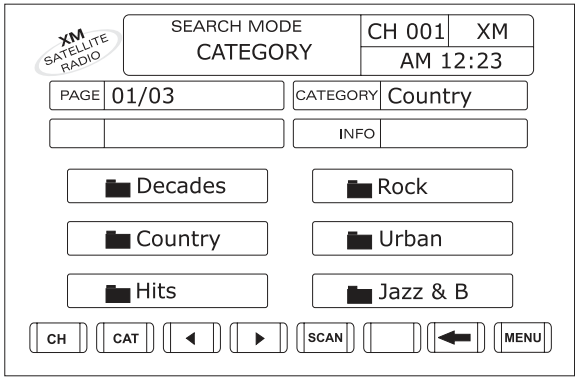


- While in Search Mode, to switch between Channel and Category search modes, press the **CH** or **CAT** buttons in the touch screen.
- Press the **>>** button (14) on the remote control, the **/** button (18) on the joystick, or the **>** button on the touch screen to view the next page of stations. Each page contains six channels to select from.
- Press the **<<** button (22) on remote control, the **V** button (19) on the joystick, or the **<** button on the touch screen to view the previous page of stations. Each page contains six channels to select from.
- Press the on-screen **SCAN** button to preview each of the 6 channels on screen for 10 seconds.
- Press the on-screen ◄ button to return to the Preset Mode screen.
- Press the on-screen **MENU** button to access the XM Setup Menu.

To select a channel while in Channel Guide mode, press the corresponding preset number (1-6) on the unit, remote control, or touch screen. The channel will begin playing and the unit will return to the Preset Mode. While in Preset Mode, *press and hold* an on-screen preset button (or 1-6 on the unit or remote control) to store the channel playing.

Category Guide Mode

When Category Mode is selected, “Search Mode” and “CATEGORY” appear in the top half of the user interface.



- While in Search Mode, to switch between Channel and Category search modes, press the **CH** or **CAT** buttons in the touch screen.
- Press the **>>** button (14) on the remote control, the **Λ** button (18) on the joystick, or the **>** button on the touch screen to view the next six categories.
- Press the **<<** button (22) on the remote control, the **V** button (19) on the joystick, or the **<** button on the touch screen to view the previous six categories.
- Press the on-screen **SCAN** button to preview each channel in the selected category for 10 seconds.
- Press the on-screen ◄ button to return to the Preset Mode screen.
- Press the on-screen **MENU** button to access the XM Setup Menu.

To select a station in a specific category, perform the following steps.

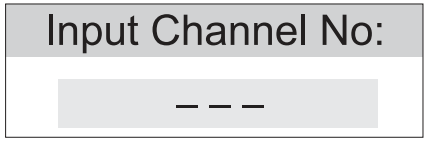
1. To select a category, press the corresponding preset number (1-6) on the front of the unit, the remote control, or the touch screen. Once a category is selected, the stations in that category will be displayed on the screen.
2. Press the **>>** button (14) on the remote control, the **Λ** button (18) on the joystick, or the **>** button on the touch screen to view the next six stations.
   Press the **<<** button (22) on remote control, the **V** button (19) on the joystick, or the **<** button on the touch screen to view the previous six stations in the selected category.
3. To select a channel while in Category Guide mode, press the corresponding preset number (1-6) on the unit, remote control, or touch screen. The channel will begin playing and the unit will return to the Preset Mode. While in Preset Mode, *press and hold* an on-screen preset button (or 1-6 on the unit or remote control) to store the channel playing.

Press the **TITLE** button (2) to return to the Category Mode main page and select a different category.

Direct Tuning

To enter a station directly, perform the following steps.

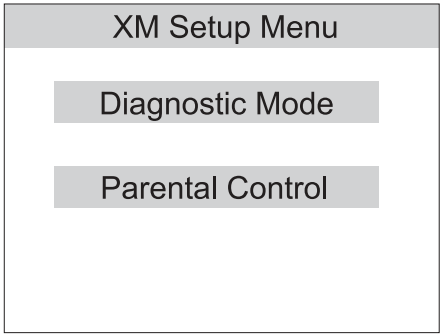
1. Press the **GOTO** button (21) until the following screen appears.



2. Use number keys on the remote control to enter the desired XM radio station. You must enter a 3 digit number (for example, 004).
3. Press the **>/||** button (18) on the remote control or the joystick **ENTER** button (20) on the unit or just let the keypad "time out" after 4 seconds and the station will be entered automatically. Use the on-screen “CLR” button to correct entry mistakes and “OK” to enter the channel number.

XM Setup Menu

While in XM radio mode, press the **MENU** button (1) on the remote control to view the XM Setup Menu.



Press **MENU** to exit the current submenu or menu and return to the previous screen.

Diagnostic Mode

This feature is reserved for use by service professionals for troubleshooting.

Parental Control

By default, this feature is unlocked and all channels can be accessed by anyone listening to the radio. To lock a station, press the **<<** button (22) on the remote control or **V** button (19) on the joystick until "Channel Number" is highlighted blue. Input the channel number to be locked. Press the **<<** button on the remote control or V button on the joystick and select LOCK. Repeat this sequence for each channel to be locked. Press the **>>** button on the remote control or **Λ** button (18) on the joystick and navigate back up to Password - input 1264 and the small yellow lock will close indicating that the channel(s) are locked. Press the **MENU** button (1) twice to return to the main XM page.

DVD/VCD VIDEO OPERATION

NOTE: When properly installed, DVD video cannot be displayed on the main TFT screen unless the parking brake is applied. If you attempt to play a DVD while the vehicle is moving, the TFT screen displays "PARKING" with a blue background. Rear video screens, if applicable, will operate normally.

Opening/Closing the TFT Video Screen

Opening the TFT Screen

To open the TFT video screen, press the **OPEN** button (1). The unit beeps and then opens.

Closing the TFT Screen

Press the **OPEN** button (1) again to close the TFT screen. If the screen is in the "IN" position, it moves out before closing.

Insert/Eject Disc

Upon inserting a DVD disc, DVD mode is entered and disc play begins.

NOTE: If Parental Lock (Rating) is activated and the disc inserted is not authorized, the 4-digit code must be entered and/or the disc must be authorized (see "RATING (Parental Lock) Menu" on page 27).

You cannot insert a disc if there is already a disc in the unit or if the power is off.

NOTE: DVD-R and DVD-RW will not play unless the recording session is finalized and the DVD is closed.

Ejecting a Disc

Press the ⏏ button (21) on the unit or remote control (35) to eject the disc. The unit automatically reverts to Tuner mode. You may eject a disc with the unit powered off. The unit will remain off after the disc is ejected.

Reset the Loading Mechanism

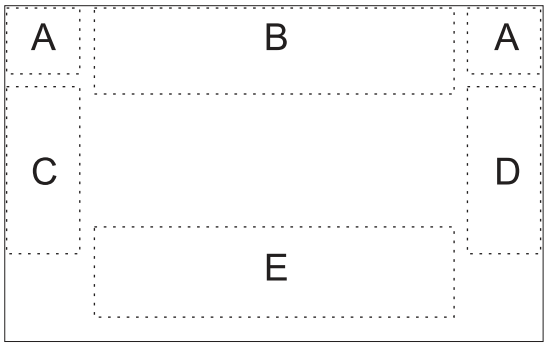
If the disc loads abnormally or an abnormal core mechanism operation occurs, press and hold the ⏏ button (21) on the unit or remote control (35) to reset the loading mechanism. Normal operation resumes.

Accessing DVD Mode

To switch to DVD mode when a disc is already inserted, press the **SRC** button (15) on the front panel or remote control (8) until "DVD" appears at the bottom of the screen.

Using the Touch-Screen Controls

The touch key areas for DVD playback are outlined below.



A – Return to MAIN MENU

B – DISP key: Displays playing information

C – Select previous chapter

D – Select next chapter

E – Display the following on-screen controls: Menu, **>/||**, ■, **|<<**, **>>|**, **<<**, **>>**.

Controlling Playback

Stopping Playback

Touch the stop button (■) on the screen or press the ■/**BAND** button (20) on the remote control to stop DVD play.

Pausing Playback

Touch the play/pause button (**>/||**) on the screen or press the **>/||** button on the remote control (18) to suspend or resume disc play.

Slow Motion Playback

Press the << button (22) on the remote control or the **V** button (19) on the joystick to play the current title in slow motion at 1/2, 1/4, 1/6 or 1/7, the normal speed. Press **>/||** (18) to resume normal play. Continue pressing the << or **V** button to slow reverse.

Repeat Playback

Press the **REPT** button (7) on the remote control to alter repeat mode according to the following:

- DVD: Repeat Title, Repeat Chapter, Repeat Off
- VCD (PBC Off): Repeat Single, Repeat Off
- MP3: Repeat Single, Repeat Folder, Repeat Off

NOTE: For VCD play, the repeat function is not available if PBC is on.

Sectional Repeat Function (A-B)

Use the A-B function to define a specific area of a disc to repeat.

- Press the **REPT A-B** button (6) on the remote control to set the start point (A) of the repeated section.
- Press the **REPT A-B** button again once you reach the desired end point (B) of the repeated section. The selected portion of the DVD will now repeat continuously.
- Press the **REPT A-B** button again to cancel the A-B section setting and stop repeat play.

Random Playback

With a DVD, VCD, or CD playing, press the **RDM** button (33) on the remote control to activate random playback and play all chapters/tracks in random order. "On" appears on the screen.

Press the **>>|** button (19) on the remote control or the **>** button on the joystick (17) to play the next random track.

Press the **RDM** button again to turn random play off.

NOTE: When a VCD is playing with PBC turned "On", activating random playback automatically turns PBC off.

Accessing the DVD Menu

Press the **MENU** button (1) on the remote control to recall the main DVD menu. Use the directional (arrow) buttons (**<**, **>**, **/** & **V**) on the joystick (16, 17, 18, 19) to select a title from the menu.

Press the **TITLE** button (2) on the remote control to select a different title for playback.

Press the **>/||** button (18) on the remote control or the **ENTER** (joystick) button (20) to confirm your selection and begin playback.

Moving Through Chapters

Press the **>>|** button (19) on the remote control or the **>** button on the joystick (17) to advance to the next chapter on the DVD.

Press the **|<<** button (17) on the remote control or the **<** button on the joystick (16) to move to the previous chapter.

Fast Forward/Fast Reverse

Press the **>>** button (14) on the remote control or the /\ button (18) on the joystick to fast forward. Keep pressing and releasing the button to increase the rate from “2X” to “4X”, “8X”, and “20X”. Continue pressing the **>>** or /\ button to fast reverse.

Scanning

Press the **SCN** button (34) on the remote control to play the first ten seconds of each chapter. Press **SCN** again to stop the scan function and play the current chapter.

Selecting 2-Channel and 6-Channel Audio Playback

2-Channel Audio (Down Mix) Support for CD, SD Card and DVD

Linear pulse code modulation (LPCM) and pulse code modulation (PCM) support is available for CD, SD Card and DVD discs when 2-channel audio is selected.

6- Channel Audio Support for CD, SD Card and DVD

Pro-Logic II is available for decoding analog or digital 2-channel down mixed sources. Dolby Digital is available for decoding digital bit-stream sources.

NOTE: 2-channel audio support is available for AM/FM tuner, TV tuner, Aux Input, XM, iPod and Navigation only. 6-channel audio support is available for DVD/CD/CD-R and SD card.

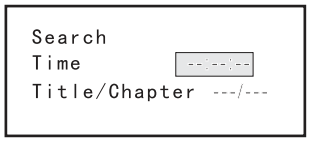
Table 10: Speaker Output Options

Speaker Setup	Front Spkr	Rear Spkr	Center Spkr	Sub-Woofer
2CH mode	X	X		
Play 2-channel (down mix) audio in 6-channel mode with Pro-Logic II "ON"	X	X	X	X
Play 6-channel audio in 6-channel mode with Dolby Digital "ON"	X	X	X	X

Goto Search

During DVD or VCD playback, perform the following steps to use the GOTO feature to access a specific location on a disc:

1. Press the **GOTO** button (21) on remote control to enter “GO TO” mode.
2. Press the **>>** or **<<** buttons (14, 22) on the remote control or the **<** or **>** buttons (16, 17) on the joystick to select a category (highlighted in blue).
   - For DVD mode, you can choose Time or Title/Chapter search.

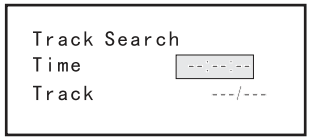


DVD Search

Time – Go to specific time in current title

Title/Chapter – Go to specific time in a chapter

   - For VCD mode, press the **GOTO** button to choose between Track Search, Disc Search and Exit.



VCD Track Search

Time – Go to specific time in the current track

Track – Go to specific track

VCD Disc Search

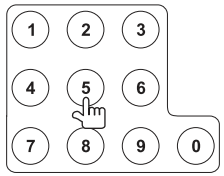
Time – Go to specific time on disc

Track – Go to specific track

3. Enter a time into the field using the numeric keypad (29) on the remote control.
4. Press the **>/||** button (18) on the remote control or the **ENTER** (joystick) button (20) to go to the specified location on the disc.
5. Press the **GOTO** button again to exit.

Direct Chapter / Track Selection

During DVD, VCD and CD playback, you can use the numeric keypad on the remote control (29) to access a track directly.



Viewing an Alternate Picture Angle (DVD Only)

Some DVDs contain scenes that have been shot simultaneously from different angles. For discs recorded with multiple angles, press the **ANGLE** button (13) on the remote control to toggle available angles of the on-screen image.

Zooming

Press the **ZOOM** button (23) on the remote control to enlarge and pan through the video image using the following options: “Q1”, “Q2”, “Q3”, and “OFF”.

Multi-Language Discs (DVD Only)

Changing Audio Language

If you are watching a disc recorded in multiple languages, press the **AUDIO** button (5) on the remote control to choose a language.

Changing Subtitle Language

If you are watching a disc recorded in multiple languages with subtitles, press the **SUBTITLE** button (9) on the remote control to choose the language in which you would like the subtitles to appear.

NOTE: During VCD playback, press the AUDIO button (5) on the remote control to choose between Left Channel, Right Channel, and Stereo.

PBC (Play Back Control - VCD Only)

For VCDs with play back functionality, play back control (PBC) provides additional controls for VCD playback.

Press the **MENU** button (1) on the remote control to toggle the PBC function “On”/”Off”. Once PBC is on, playback starts from track one of the play list.

NOTE: When PBC is activated, fast forward, slow playback, and previous/next track are available. Repeat and direct track selection are not available.

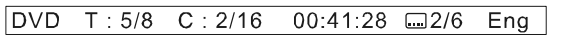
When PBC is activated, selecting random, scan, or search playback automatically deactivates PBC.

Playback Information

During DVD and VCD playback, press the **INFO** button (10) on the remote control to display playback information on the screen, including the media playing and current playback time.

DVD Playback Information

The following information is displayed at the bottom of the screen during DVD playback:



- T : 5/8 – “5 / 8" indicates the fifth of 8 titles on the DVD is currently playing.
  - C : 2/16 – “2 / 16" indicates that the second of 16 titles on the DVD is currently playing.
- 00:41:28 – “00:41:28” indicates the playback time of the current title.

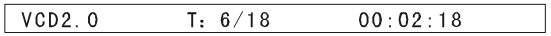
- 2 / 6 Eng – The language display information indicates the second language out of 6 (English) is currently being used.

The following information appears at the *bottom* of the screen during DVD playback:

- Front: DVD is the current playback source for the front zone.
- Rear: AUX IN is the current playback source for the rear zone.
  "Dolby Digital" is the selected playback audio encoding process.
  Bypass indicates that the ASP (Audio Signal Processor) is being bypassed when Dolby Digital decoding is active.

VCD Playback Information

The following information is displayed on the screen during VCD playback:



- VCD2.0 – Format of current disc.
- T: 6/18 – “6/18” indicates the sixth of 18 tracks on the VCD is currently playing.
- 00:02:18 – “00:02:18” indicates the playback time of the current track.

The following information appears on the screen during VCD playback in 6-Channel mode:

- Front: DVD – “DVD” is the current playing source for the front zone.
- Rear: AUX IN – “AUX IN” is the current playing source for the rear zone.
  “MPEG” is the decoding method in use.
  "Movie" indicates that movie effects are being applied to the audio sound track from the VCD.

The following information appears on the screen during VCD playback in 2-Channel mode:

- Front: DVD – “DVD” is the current playing source for the front zone.
- Rear: AUX IN – “AUX IN” is the current playing source for the rear zone.
- EQ: FLAT – The equalizer setting is FLAT.
- Loud: Level 1 – The Loud option is set to Level 1 loudness.

General Disc Information

Table 11: Disc Properties

Symbol	12cm Disc Properties	Max Play Time
DVD VIDEO DVD VIDEO	Single side single layer (DVD-5) Single side double layer (DVD-9) Double side single layer (DVD-10) Double side double layer (DVD-18)	(MPEG 2 Method) 133 minutes 242 minutes 266 minutes 484 minutes
COMPACT disc DIGITAL VIDEO	Single side single layer (VCD)	(MPEG 1 Method) 74 minutes
COMPACT disc DIGITAL AUDIO TEXT	Single side single layer	74 minutes

Table 12: Disc Symbols

Symbol	Meaning
8	Number of voice languages recorded. The number inside the icon indicates the number languages on the disc (maximum of 8).
32	Number of subtitle languages available on the disc (maximum of 32).
9	Number of angles provided (maximum of 9).
16:9 LB	Aspect ratios available. “LB” stands for Letter Box and “PS” stands for Pan/Scan. In the example on the left, the 16:9 video can be converted to Letter Box video.
ALL	Indicates the region code where the disc can be played. • Region 1: USA, Canada, East Pacific Ocean Islands • Region 2: Japan, Western Europe, Northern Europe, Egypt, South Africa, Middle East • Region 3: Taiwan, Hong Kong, South Korea, Thailand, Indonesia, South-East Asia • Region 4: Australia, New Zealand, Middle and South America, South Pacific Ocean Islands/ Oceania • Region 5: Russia, Mongolia, India, Middle Asia, Eastern Europe, North Korea, North Africa, North-West Asia • Region 6: Mainland China • ALL: All regions

DVD/DISC SETUP MENU

NOTE: A DVD/disc must be loaded into the mechanism and playing prior to accessing the DVD Setup menu. While the DVD/disc is playing, press the DVD SETUP button (30) on the remote to access the DVD Setup menu.

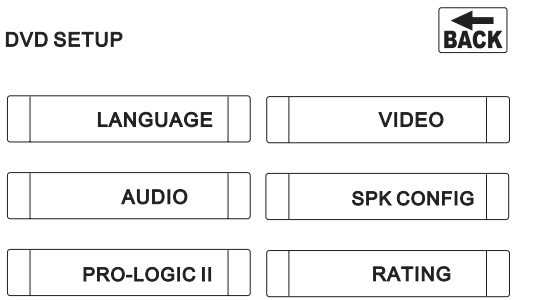
In “DVD Setup” mode, “LANGUAGE”, “VIDEO”, “AUDIO” “SPK CONFIG”, “PRO-LOGIC II”, and “RATING” (parental lock) are available for setup. These operations can be performed using the remote control or joystick controls.

Accessing the DVD Setup Screen

Setup can be performed by pressing the dedicated button on the remote control, or by pressing the **SRC** button (15) on the front panel.

For system settings, press the **DVD SETUP** button (30) on the remote control or touch “SETUP” on the screen to enter the “SETUP” menu. “SYS SETUP” is highlighted in green.

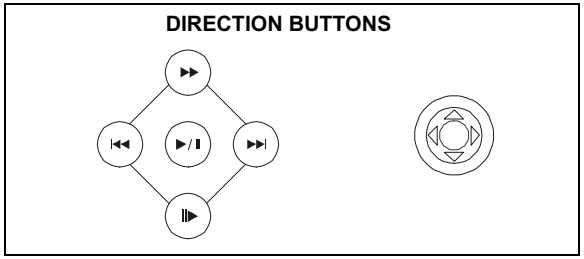
To access the “DVD SETUP” Menu, press the **V** button (7) on the remote control to choose the “DVD SETUP” option, then press the **>/||** button (18), or just touch “DVD SETUP” on the screen. “LANGUAGE” is highlighted in green.



NOTE: Once the DVD setup is complete, the settings are memorized. To return to the factory default settings, press the RESET button (25) on the front panel.

Accessing a Menu

To access a menu (LANGUAGE, VIDEO, AUDIO, SPK CONFIG, PRO-LOGIC II, or RATING), press the direction buttons on the joystick (16, 17, 18, 19) or remote control (14, 17, 18, 19, 22) to highlight the desired menu in green. You can also touch the on-screen menu selection to access that menu.



Selecting a Feature for Adjustment

Once inside a menu, press the **>>** or **<<** buttons (14, 22) on the remote control or the **Λ** or **V** buttons (18, 19) on the joystick to select the feature to be adjusted.

Adjusting a Feature

1. Enter the option field for the feature you want to adjust by pressing the **>/||** button (18) on the remote or by pressing the **ENTER** (joystick) button (20) on the unit. A submenu appears in a second row with the selected option highlighted in light blue.
2. Select a new value by pressing the **>>** or **<<** buttons (14, 22) on the remote control or the **Λ** or **V** buttons (18, 19) on the joystick.
3. Confirm your selection by pressing the **<<**, **|<<**, or **>>|** buttons (22, 17, 19) on the remote control, or the **<** or **>** button (16, 17) on the joystick. The new value is highlighted in light blue and setup is complete.

LANGUAGE Menu

If a DVD supports more than 1 Subtitle or Audio language, all the languages are available for selection during playback. If the selected language is not supported by the DVD, then the default language is used. During playback, press the **SUBTITLE** (9) or **AUDIO** (5) button on the remote control to change the language directly. This will not affect the DVD menu settings.

Table 13: LANGUAGE Menu Features

Setting	Options	Function
Subtitle	English	Select the default language in which you would like subtitles (if applicable) to be displayed.
	Auto	
	Off	

Table 13: LANGUAGE Menu Features

Setting	Options	Function
Audio	English	Select the default language in which you would like audio (when optional) to be played.
DVD Menu	English	Select the default language in which you would like the DVD menu (if applicable) to be displayed.
BACK		Return to previous menu.

VIDEO Menu

Table 14: VIDEO Menu Features

Setting	Options	Function
TV Shape (Aspect Ratio)	4:3 PS	With 16:9 display, the left and right sides are cut off.
	4:3 LB	With 16:9 display, the top and bottom are cut off.
	16:9	Image is presented in wide view with a 16:9 aspect ratio.
Angle Mark	On	Angle indicator (if applicable) is shown.
	Off	Angle indicator is not shown.
View Mode	Fill	
	Original	
	H Fit	
	W Fit	
	Fit to Scrn	
	Pan Scan	
BACK		Return to previous menu.

NOTE: For standard discs not formatted for “widescreen”, use of the 16:9 aspect ratio will result in image distortion.

AUDIO Menu

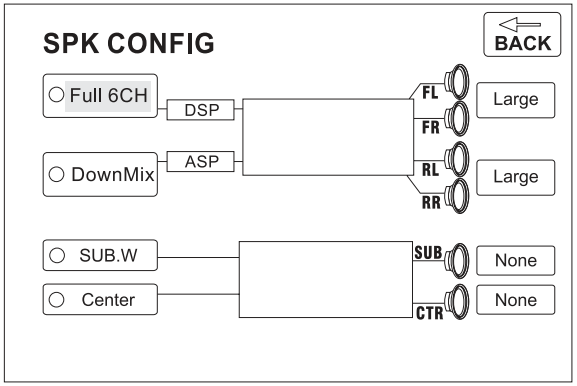
The VM9511TS has a built-in Pink Noise generator to help set the relative speaker levels for multi-channel audio playback.

Table 15: AUDIO Menu Features

Setting	Options	Function
Pink Noise	Off	Stop output of pink noise
	Left	Left channel pink noise
	Center	Center channel pink noise
	Right	Right channel pink noise
	Left Surr	Left surround channel pink noise
	Right Surr	Right surround channel pink noise
	Subwoofer	Subwoofer pink noise
DRC	Off	Employ the Dynamic Range Control for better playback for low volumes.
	On	
CNTR CTRL	5ms	Adjust the time difference between the center and front speakers to create a time delay between 1 and 5 millisec-onds, producing a more accurate audio effect.
	4ms	
	3ms	
	2ms	
	1ms	
	0ms	
REAR CTRL	15ms	Adjust the time difference between the rear and front speakers to create a time delay between 3 and 15 millisec-onds, producing a more accurate audio effect.
	12ms	
	9ms	
	6ms	
	3ms	
	0ms	
Down Sampling	Off	Normal Output
	on	Audio signal output at 48kHz
BACK		Return to previous menu.

NOTE: When Down Sampling is ON, the audio output signal will be converted to 48kHz. When Down Sampling is OFF, the original sampling frequency is preserved.

SPK CONFIG Menu



To change speaker settings for 2-channel mode, use the **>>** or **<<** buttons (14, 22) on the remote control or the **/** or **V** buttons (18, 19) on the joystick to select “DownMix”. To change speaker settings for 6-channel mode, select “Full 6CH”. After selecting 2 or 6-channel mode, use the **>>|** button (19) on remote control or the **>** button on the joystick (17) to move to the speaker settings on the right.

Speaker Selection

Selecting LARGE for the multi-channel speaker option will give a full range output. Selecting SMALL for the multi-channel speaker option will activate a high pass filter whose crossover is dependent upon the sub-woofer low pass filter frequency. For example, if the subwoofer low pass filter is set to 80Hz, then the high pass SMALL speaker crossover will be set to 90Hz.

Low pass	High pass
80Hz	90Hz
120Hz	135Hz
160Hz	180Hz

Refer to Table 16 when selecting speaker options for each mode.

Table 16: SPK CONFIG Menu Features

Setting	Options	Function
FL (Front Left) / FR (Front Right)	Large	Use when front speakers have good bass output.
	Small	Use when speakers do not have good bass output.

Table 16: SPK CONFIG Menu Features

Setting	Options	Function
LR (Left Rear) / RR (Right Rear)	Large	Use when rear speakers have good bass output.
	Small	Use when rear speakers do not have good bass output.
	None	Use when rear speakers are not present.
SUB (Subwoofer)	Present	Use when subwoofer is present.
	None	Use when subwoofer is not present.
CTR (Center)	Large	Use when center speaker has good bass output.
	Small	Use when center speaker does not have good bass output.
	None	Use when center speaker is not present.
BACK		Return to previous menu.

Surround Sound

Dolby Digital

Dolby Digital is the reigning standard for surround sound technology in general and 5.1-channel surround sound in particular.

Dolby Digital is a highly sophisticated and versatile audio encoding/decoding technology. Dolby Digital technology can transmit mono, stereo (two-channel), or up to 5.1-channel surround sound.

Pro-Logic II

Pro-Logic II is a dramatically improved matrix surround system based on the original Dolby Pro Logic system. Pro-Logic II offers two full-range stereo surround channels, more sophisticated steering logic, high channel separation and an exceptionally stable sound field. Dolby Pro-Logic II uses simple servo circuits used to derive the five audio channels. Unlike other "Surround Effects" found in other consumer equipment, Dolby Pro-Logic II does not introduce unwanted delays, echoes, reverberations or tonal colorations.

Table 17: Pro-Logic II Menu Features

Setting	Options	Function
Decode Mode	Off	Play original audio format.
	Pro-Logic II	Use Pro-Logic II decoding method.
	Pro-Logic II Matrix	Play mono output with surround effect.
	Pro-Logic II Movie	Enhance movie surround effects.
	Pro-Logic II Music	Play surround music effects.
Panorama (Only available when Pro-Logic II Music Mode is selected.)	On	Extends the audio from front to rear to achieve a better audio surround effect.
	Off	Panorama is turned off.
Dimension Ctrl (Only available when Pro-Logic II Music Mode is selected.)	0-6	Adjusts the distribution of the front and rear audio for a better audio surround effect.
Center Width Ctrl (Only available when Pro-Logic II Music Mode is selected.)	0-6	Adjusts the width of the center surround effect.
BACK		Return to previous menu.

NOTE: Pro-Logic II is recommended when the playback source is LPCM (Linear Pulse Code Modulation) or 2-channel down mixed digital bit-stream.

NOTE: When Pro-Logic II Music mode is selected, Dimension Control and Center Width are available for fine tuning to achieve a more realistic surround sound processing.

RATING (Parental Lock) Menu

The DVD system has a built-in parental lock feature to prevent unauthorized persons from viewing restricted disc content. By default, the rating system is unlocked. Once setup, the parental lock is released only by entering the correct password. Once the password is entered, rating is available for setup.

Table 18: RATING Menu Features

Setting	Options	Function
Password	_ _ _ _	Enter a 4-digit password to activate the “Rating” feature.

Table 18: RATING Menu Features

Setting	Options	Function
Rating	1. Kid Safe	Select the appropriate rating level for the intended audience. You may override higher ratings by using your password.
	2. G	
	3. PG	
	4. PG-13	
	5. PG-R	
	6. R	
	7. NC-17	
	8. Adult	
Load Factory	Reset	Select “Reset” to restore the factory default settings for the *Rating system only.*
BACK		Return to previous menu.

To reset the password, access the “RATING” menu and enter the current password. Once the correct password is entered, you can access the “Password” field and enter a new one.

NOTE: Record the password and keep it in a safe place for future reference. The rating for each disc is marked on the disc, disc packing, or documentation. If the rating is not available on the disc, the parental lock feature is unavailable. Some discs restrict only portions of the disc and the appropriate content will play. For details, please refer to the disc description.

DVD/DISC AUDIO OPERATION

Instructions for TFT control and Insert/Eject are the same for DVD, CD and MP3 operation. Please see the DVD/Disc Video Operation section for information about these topics.

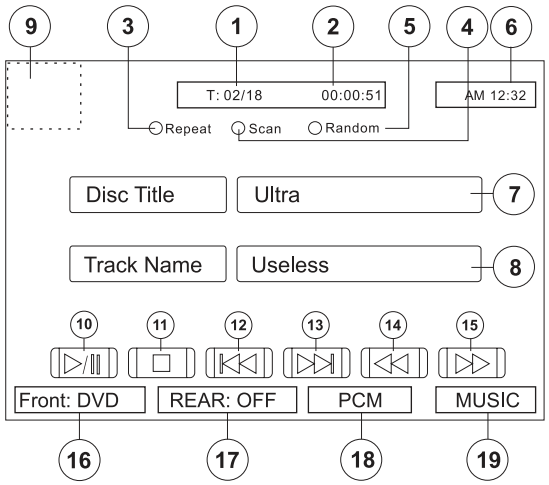
The VM9511TS will play music or other audio files from the following disc media:

- CD-DA
- CD-R/RW with MP3 or WMA files
- DVD
- DVD-R/RW with MP3 or WMA files

Upon inserting a disc with the TFT screen open, the disc and track title (if available), along with the track number and playing time appear on the screen.

CD Player User Interface

The on-screen indicators and touch key areas for CD playback are outlined below.



1. Current track and total number of tracks on disc
2. Elapsed playing time
3. Touch to activate/deactivate Repeat play mode
4. Touch to activate/deactivate Scan mode
5. Touch to activate/deactivate Random mode
6. Current time
7. Disc Title
8. Track Title
9. Touch to return to MAIN MENU
10. **>/||**: Touch to play/pause disc playback
11. ■: Touch to stop disc playback
12. **|<<**: Touch to move to previous track
13. **>>|**: Touch to move to next track
14. **<<**: Touch to rewind current track
15. **>>**: Touch to fast forward current track
16. Front Zone Playing Mode
17. Rear Zone Playing Mode
18. Encoding method of media being played
19. "Surround Music" effect selected

Controlling Playback

Stopping Playback

Press the **6/STOP** button (13) on the front panel or the ■/ **BAND** button (20) on the remote control to stop disc play.

To resume playback, press the **ENTER** button, or the joystick (20), on the front panel or the **>/||** button on the remote control (18).

Pausing Playback

Press the **ENTER** button, or the joystick (20), on the front panel or the **>/||** button on the remote control (18) to suspend or resume disc play.

Moving Through Tracks

Press the **>>|** button (19) on the remote control or the **>** button on the joystick (17) to advance to the next track on the disc.

Press the **|<<** button (17) on the remote control or the **<** button on the joystick (16) to move to the previous track.

Repeat Playback

Press the **4/RPT** button (11) on front panel or the **REPT** button (7) on remote control to alter repeat mode according to the following:

- DVD: Repeat Title, Repeat Chapter, Repeat Off
- CD-DA: Repeat Single, Repeat Off
- CD-R/RW: Repeat Single, Repeat Off
- DVD-R/RW: Repeat Single, Repeat Off

Track Scan Select (CD-DA discs only)

During disc play, press the **3/SCN** button (10) on the unit or the **SCN** button (34) on the remote control to play the first 10 seconds of each track. When a desired track is reached, press the **SCN** button again to cancel the function and play the selected track.

Random Play Select

During disc play, press the **5/RDM** button (12) to play the tracks on the disc in a random, shuffled order. In Random Play mode, you can Press the **|<<** or **>>|** button (17, 19) on remote control or the **<** or **>** button (16, 17) on the joystick to select a track in random order instead of the normal progression. Press **5/RDM** again to cancel Random Play mode.

NOTE: CD-R and CD-RW will not play unless the recording session is closed.

Fast Forward

Press the **>>** button (14) on the remote control or the /\ button (18) on the joystick to fast forward. Keep pressing and releasing the button to increase the rate from “2X” to “4X”, “8X”, and “20X”.

MP3/WMA Operation

This player allows you to play back MP3 and WMA files recorded onto CD-R/RW's and DVD-R/RW’s. For CD-RW discs, please make sure it is formatted using the full method and not the quick method to prevent illegal disc operation.

Up to 999 songs/files can be burned onto a disc for a MEGA DVD music mix. Do not exceed this number of songs/files or disc readability problems may occur.

MP3 Format Compatibility

The file naming formats listed below are compatible with this unit:

- ISO 9660 – file name: 12 characters, file extension: 3 characters
- ISO 9660 – file name: 31 characters, file extension: 3 characters
- Joliet – 64 characters

If the file or folder name does not conform to ISO 9660 file system standards, it may not be displayed or played back correctly.

Use the following settings when compressing audio data for your MP3 disc:

- Transfer Bit Rate: 128kbps
- Sampling Frequency: 48kHz

When recording MP3 up to the maximum disc capacity, disable additional writing. For recording on an empty disc up to maximum disc capacity, use the "Disc at once" setting.

Playing MP3/WMA Files

After inserting a MP3/WMA disc, files will play in the sequence of the “Root’ directory.

Use the numeric keypad (29) on the remote control to access files directly.

NOTE: When burning MP3 / WMA files onto a DVD disc, use the 2X or 4X burning option, if available. This slower burning speed will help eliminate buffer errors and increase disc reading reliability. Also, use folders when burning large numbers of songs / files to a disc for easy music navigation. Select the "Disc at Once" option and close your disc.

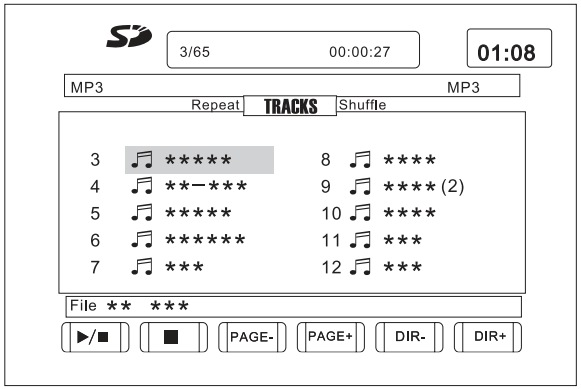
SD CARD READER OPERATION

Accessing SD Card Mode

To switch to SD card mode, press the **SRC** button (15) on the front panel.

Using the Touch-Screen Controls

The touch keys for SD card playback are described below.



- **>/||**: Play/Pause playback
- ■: Stop playback
- PAGE -: View previous page
- PAGE +: View next page
- DIR -: View previous directory
- DIR +: View next directory

Controlling Playback

Stopping Playback

Touch the stop button (■) on the screen or press the ■ / **BAND** button (20) on the remote control to stop playback.

Pausing Playback

Touch the play/pause button (**>/||**) on the screen, press the **>/||** button (18) on the remote control, or press the joystick button (20) on the front panel to suspend or resume playback.

Repeat Playback

Press the **REPT** button (7) on the remote control or touch “Repeat” on the screen to alter repeat mode according to the following: Repeat Single, Repeat Folder, Repeat Off.

Random Playback

Press the **RDM** button (33) on the remote control or touch “Random” on the screen to activate random playback and play all tracks in random order.

Moving Through Chapters

Press the **>>|** button (19) on the remote control or the **>** button on the joystick (17) to advance to the next chapter.

Press the **|<<** button (17) on the remote control or the **<** button on the joystick (16) to move to the previous chapter.

Change Directory

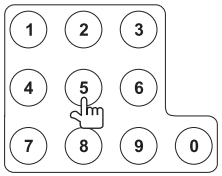
Touch the ([DIR+] / [DIR-]) key on the screen to navigate through the Directories/Folders

Previous/Next Page

Touch the ([PAGE+] / [PAGE-]) key on the screen to navigate through Pages/Files.

Direct Chapter / Track Selection

During DVD, VCD and CD playback, you can use the numeric keypad on the remote control (29) to access a track directly.

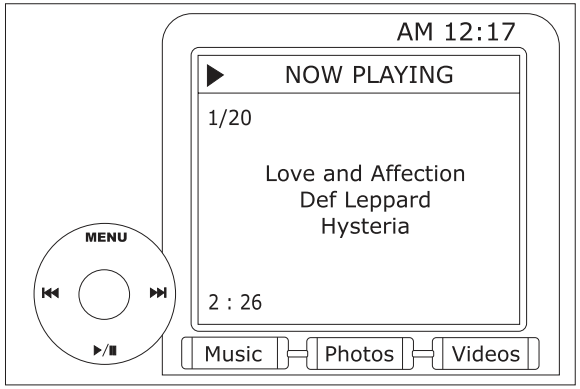


NOTE: Media (SD Card/CD-R/DVD) with a ROOT directory containing only music, movie or JPEG files may cause the RANDOM / REPEAT function to work incorrectly. To ensure the proper playback of music, movie, and JPEG files, place all media files inside folders on the data storage media.

IPOD OPERATION

Accessing iPod Mode

The unit will automatically switch to iPod mode when an iPod is plugged into the media module. To return to the iPod menu from any other source menu, press the **SRC** button (15) on the front panel or remote control (8) until the iPod menu appears on the screen.



Controlling your iPod

The following remote control buttons are used to access the iPod menus:

TITLE = Music

MENU = Photos

AUDIO = Videos

Use the joystick on the unit or the directional keys on the remote control to navigate the iPod menus.

Music Playback

Press the **>>|** button (19) on remote control, or the **>** button on the joystick (17) to move to the next item on the menu.

Press the **|<<** button (17) on the remote control, or the **<** button on the joystick (16) to move to the previous item on the menu.

Press the **>/||** button (18) on the remote control or the joystick **ENTER** button (20) on the head unit to select the highlighted menu option.

Press the **>>** button (14) on the remote control or the **Λ** button (18) on the joystick to return to the previous menu.

Video Playback

While iPod video can be viewed on the VM9511TS screen, you must use the iPod to control video playback options.

Press the **AUDIO** button (5) on the remote control to access the iPod VIDEO mode. The VM9511TS will release control back to the iPod so you can select video media to be displayed on the VM9511TS TFT monitor. To exit VIDEO mode, press the **>>** button (14) on the remote control or **MENU** button on the iPod.

NOTE: To transmit the video from your iPod to the VM9511TS screen, you must set the following options through the iPod video settings menu: TV Out = On, TV Signal = NTSC, and Widescreen = On.

Photo Playback

While iPod photos can be viewed on the VM9511TS screen, you must use the iPod to control photo playback options.

Press the **MENU** button (1) on the remote control to access the iPod PHOTO mode. The VM9511TS will release control back to the iPod so you can select video media to be displayed on the VM9511TS TFT monitor. To exit PHOTO mode, press the **>>** button (14) on the remote control or **MENU** button on the iPod.

NOTE: After disconnecting your iPod, the VM9511TS will always return to last mode accessed when your iPod is plugged back into the unit.

Fast Forward/Fast Reverse

Press and hold the **|<<** or **>>|** buttons (17, 19) for 1 second and continue to hold for fast forward or fast reverse. Release to resume normal play.

Search Playlist/Artist/Album/Song

To search through Playlists, Artists, Albums and Songs, press the **1** button (29) on the remote control keypad while in one of the following directories: Playlist, Artist, Album or Song. The selected directory will be accessed with the number of pages and files in that directory displayed at the top of the page. To access the page or file, enter the page or file number directly from the remote control keypad. Press the **|<<** or **>>|** button (17, 19) on the remote control or the **<** or **>** button (16, 17) on the joystick to select the desired song or track.

TV TUNER OPERATION

Accessing TV Mode

To switch to TV mode, press the **SRC** button (15) on the front panel or on the remote control (8) until “TV” appears at the bottom of the screen.

Seek Tuning

Press the **>>|** button (19) on remote control, or the **>** button on the joystick (17) to seek the next available TV station by increasing the tuning frequency.

Press the **|<<** button (17) on the remote control, or the **<** button on the joystick (16) to seek the next available TV station by decreasing the tuning frequency.

Once a TV station is searched, the auto seeking stops and the TV station is played. If no station is searched, the tuning stops at the first channel after performing a round search.

Storing Stations (AS)

Auto Memory Tuning

To select the strong stations in the current TV frequency range, *press and hold* the joystick button (20) to activate the Auto-Store function. The new stations replace stations already stored. Press the joystick button again or press the ■ **/BAND** button (18) on the remote control to stop searching.

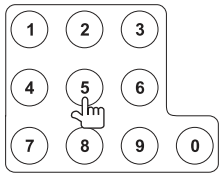
Selecting a TV Station

To browse through stored stations:

- Press the **>>** button (14) on the remote control or the **/** button (18) on the joystick to tune to the next stored station.
- Press the **<<** button (22) on remote control or the **V** button (19) on the joystick to tune to the previous stored station.

Direct Channel Selection

Use the numeric keypad on the remote control (29) to enter a specific TV station.



Display Current Channel

Press the **INFO** button (10) on the remote control to display information regarding the current TV station.

NAVIGATION SYSTEM

The VM9511TS is "navigation ready." Before accessing any navigation features, you must purchase and install the NAV100 module. All installation and operating instructions will be included with the NAV100 navigation module.

Once the NAV100 is connected and operating properly, the NAVI source mode will become active. While the NAV100 is not installed, the NAVI option appears gray, indicating the function is not available.

TROUBLESHOOTING

Table 19: Troubleshooting

Problem	Cause	Corrective Action
GENERAL		
Unit will not power on	Radio Fuse blown	Install new fuse with correct rating
	Car battery fuse blown	Install new fuse with correct rating
	Illegal operation	Press the RESET button located in the bottom right corner of the front panel
Remote control does not function	Battery depleted	Replace battery with new one
	Battery installed incorrectly	Remove battery and install correctly
No/low audio output	Improper audio output connection	Check wiring and correct
	Volume set too low	Increase volume level
	Improper “MUTE” connection	Review wiring diagram and check “MUTE” connection
	Speakers damaged	Replace speakers
	Heavily biased volume balance	Adjust the channel balance to the center position
	Speaker wiring is in contact with metal part of car	Insulate all speaker wiring connections
Poor sound quality or distortion	Pirated disc is in use	Use original copy
	Speaker power rating not compatible with unit	Connect proper speakers
	Speaker is shorted	Check speaker contact
Tel-Mute malfunction	“MUTE” wire is grounded	Check that “MUTE” connection is not grounded and that it’s properly insulated
Unit resets itself when engine is off	Incorrect connection between ACC and positive battery wire	Check wiring and correct
TFT MONITOR		
Monitor does not open automatically	TFT Auto Open is turned off	Turn TFT Auto Open on
No image	Incorrect connection to parking brake wire	Check wiring and correct
	PRK SW is activated and parking brake is not engaged	Stop vehicle in safe place and apply parking brake
Flashing image or interference appears on screen	DVD is not compatible with current TV system settings	Change setup to accommodate disc
	Improper video signal connections	Check wiring and correct
Prolonged image or improper height/width ratio display	Improper aspect ratio setup	Use correct aspect ratio setting
Monitor stops at incorrect position	Moving path is blocked	Press OPEN key to restart monitor movement
TUNER		
Weak station searching	Auto antenna is not fully extended	Connect the auto antenna control cable properly
	Auto antenna not properly connected	Connect the auto antenna control cable properly
	LOCAL function is activated	Turn LOCAL function off
Cannot insert disc	Disc already inside unit	Eject current disc and insert new one

Table 19: Troubleshooting

Problem	Cause	Corrective Action
Disc does not play back	Disc is warped or scratched	Use disc in good condition
	Disc is dirty or wet	Clean disc with soft cloth
	Laser pickup is dirty	Clean laser pickup with cleaning disc
	Incompatible disc is used	Use compatible disc
	Disc rating exceeds Parental Lock rating limit	Change Parental Lock settings to lower restriction
	Disc region code is not compatible with unit	Use disc with proper region code
	Disc is inserted upside down	Insert disc with label side up
Image blurred, distorted, or dark	Disc is illegally copied	Use original disc
PBC cannot be used during VCD playback	PCB is not available on the disc	
No repeat or searching while playing VCD	PCB is on	Turn PCB off
MP3		
Interruption occurred during playback	Disc is dirty or scratched	Clean disc or replace
	File is damaged/bad recording	Recreate disc with good files
Incorrect playback message displayed	Message is longer than LCD can display	
XM RADIO		
No Sound	Incorrect cable connections	Check RCA cables
XM source not available	Incorrect cable connections	Check XM Data cable or Media Module Cable
“ANTENNA” appears on the XM main screen	Antenna not connected	Check satellite antenna connection
All other Errors		Reset Media Module
IPOD		
iPod source not available	Incorrect cable connections	Check jLink and Media Module cables
Cannot see video and photo media on TFT screen	Wrong iPod Video Settings	Change iPod video settings to TV Out = On Check Media Module yellow RCA video input cable
All other errors		Reset Media Module

Error Messages

Table 20: Error Messages

Message Displayed	Cause	Corrective Action
Loading	Disc is being read	
No Disc	Disc is dirty	Clean disc with soft cloth
	Disc is upside down	Insert disc with label side up
	Disc not present in loading compartment	Insert disc
Bad Disc	Disc is dirty	Clean disc with soft cloth
	Disc is upside down	Insert disc with label side up
Unknown disc	Disc format is not compatible with this unit	
Region Error	DVD is not compatible with region code of unit	
Error	illegal mechanism operation	Press EJECT key for 5 seconds to reset loading mechanism

Care and Maintenance

1. Use only a clean silicone cloth and neutral detergent to clean the front panel or monitor. A rough cloth and non-neutral detergent (such as alcohol) may result in scratching or discoloration.
2. Do not get water or cleaning fluids on the unit.
3. If the temperature inside the player gets too hot, a protective circuit automatically stops play of the disc. If this occurs, allow the unit to cool before operating the player again.
4. Never insert anything other than a 5” (12 cm) compact disc into the player as the mechanism can be damaged by foreign objects.
5. Do not attempt to use a 3” (8 cm) CD-Single disc in this unit, either with or without an adaptor, as damage to the player and/or disc may occur. Such damage is not covered by the Warranty on this product.
6. The CD player may not operate properly in extreme hot or cold. If such conditions occur, allow the interior of the vehicle to reach a normal temperature before using player.
7. When the vehicle warms up during cold weather or under damp conditions, condensation may appear on the LCD panel. Should this occur, the screen will not operate properly until the moisture has evaporated.
8. We suggest you use a cleaning disc in this unit more frequently than in the unit in your home due to the environmental conditions of the vehicle.

SPECIFICATIONS

CEA Power Ratings

Main Amplifier
Power Output: 18 watts RMS X 4 channels into 4-ohms @ < 1% THD+N
Signal to Noise Ratio: 70dBA below reference. (Reference: 1 watt, 4-ohms)
Dynamic Power: 88 watts into 4-ohms, all channels driven
Frequency Response: 20Hz to 20kHz, -3dB. Aux input used as source reference
Reference Supply Voltage: 14.4VDC
DVD/CD Player
Compatible Formats: DVD-R, DVD-RW, DVD+R, DVD+RW, CD-R, CD-RW, CD-DA, MP3, WMA, HDCD, SVCD, VCD, MPEG2, MPEG4, JPEG, MP3/WMA files burned onto a DVD+R/W or DVD-R/W and Kodak Picture CD
Signal to Noise Ratio: 95dBA
Dynamic Range: >95dB
Frequency Response: 20Hz to 20kHz, -3dB
Channel Separation: > 60dB @ 1kHz
D/A Converter(s): 6-channel high performance 24-bit, 192kHz, multi-bit Sigma Delta modulation. DAC supports sample rates from 8~192kHz.
Electronic Skip Protection (ESP): 16Mbit high-speed flash memory
DVD: 2-3 sec, CD-DA: 10 sec, MP3: 100 sec, WMA: 200 sec (ESP time is approximate)
SD Card Reader
Compatible Formats: MPEG, MPEG2, MP3 / WMA, MPEG4, JPEG and Kodak Picture CD
Supports up to 2GB SD card
Video
Format: NTSC, PAL (auto-detection)
Output: 1Vp-p (75-ohm), buffered
Input: 1Vp-p (75-ohm)
FM Tuner
Tuning Range: 87.5MHz - 107.9MHz
Mono Sensitivity (-30dB): 9dBf
Quieting Sensitivity (-50dB): 15dBf
Alternate Channel Selectivity: 70dB
Signal to Noise Ratio @ 1kHz: 58dB
Image Rejection: 80dB
Stereo Separation @ 1kHz: 30dB
Frequency Response: 30Hz - 15kHz, -3dB
AM Tuner
Tuning Range: 530kHz - 1710kHz
Sensitivity (-20dB): 30uV
Signal to Noise Ratio @ 1kHz: 50dB
Image Rejection: 60dB
Frequency Response: 50Hz - 2kHz, -3dB
Monitor
Screen Size: 7.0" (Measured diagonally), 16:9 Widescreen
- 6.06" (154.1mm) W X 3.42" (87mm) H

Screen Type: TFT Liquid Crystal Display (LCD) active matrix
Response Time: 30mSec rise time, 50mSec fall time
Resolution, DVD/Composite Video in: 336,960 sub pixels, 1440 (W) X 234 (H)
Viewing angle:
- 65 degrees left or right
- 40 degrees up
- 65 degrees down

General
Auxiliary Input impedance: 10k
Power Supply: 11 to 16VDC, negative ground
Power Antenna (Blue): 500mA max, current limited protection
Amplifier Remote (Blue/White): 500mA, current limited protection
Fuse: 15-amp, mini ATM type
DIN chassis dimensions: 7" X 7" X 2" (178mm x 178mm x 50mm)
Operating Temperature: -20C ~ 70C
* Specifications subject to change without notice.

12-MONTH LIMITED WARRANTY

AUDIOVOX CORPORATION (the Company) warrants to the original retail purchaser of this product that should this product or any part thereof, under normal use and conditions, be proven defective in material or workmanship within 12 months from the date of original purchase, such defect(s) will be repaired or replaced with new or reconditioned product (at the Company's option) without charge for parts and repair labor. To obtain repair or replacement within the terms of this Warranty, please contact Audiovox at the telephone number provided below.

This Warranty does not extend to the elimination of car static or motor noise, to correction of antenna problems, to costs incurred for installation, removal, or reinstallation of the product, or damage to tapes, compact discs, accessories or vehicle electrical systems. This Warranty does not apply to any product or part thereof which, in the opinion of the Company, has suffered or been damaged through alteration, improper installation, mishandling, misuse, neglect, accident, or by removal or defacement of the factory serial number/bar code label(s) or markings. THE EXTENT OF THE COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE AND, IN NO EVENT, SHALL THE COMPANY'S LIABILITY EXCEED THE PURCHASE PRICE PAID BY PURCHASER FOR THE PRODUCT.

This Warranty is in lieu of all other express warranties or liabilities. ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. ANY ACTION FOR BREACH OF ANY WARRANTY HEREUNDER INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY MUST BE BROUGHT WITHIN A PERIOD OF 12 MONTHS FROM DATE OF ORIGINAL PURCHASE. IN NO CASE SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WHATSOEVER. No person or representative is authorized to assume for the Company any liability other than expressed herein in connection with the sale of this product.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damage so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights and you may also have other rights which vary from state to state.

U.S.A: 1-800-323-4815

CANADA: Call 1-800-323-4815 for the location of a warranty station serving your area.

Audiovox Electronics Corporation
Hauppauge, NY 11788
Technical Assistance: 1-800-323-4815
www.jensen.com

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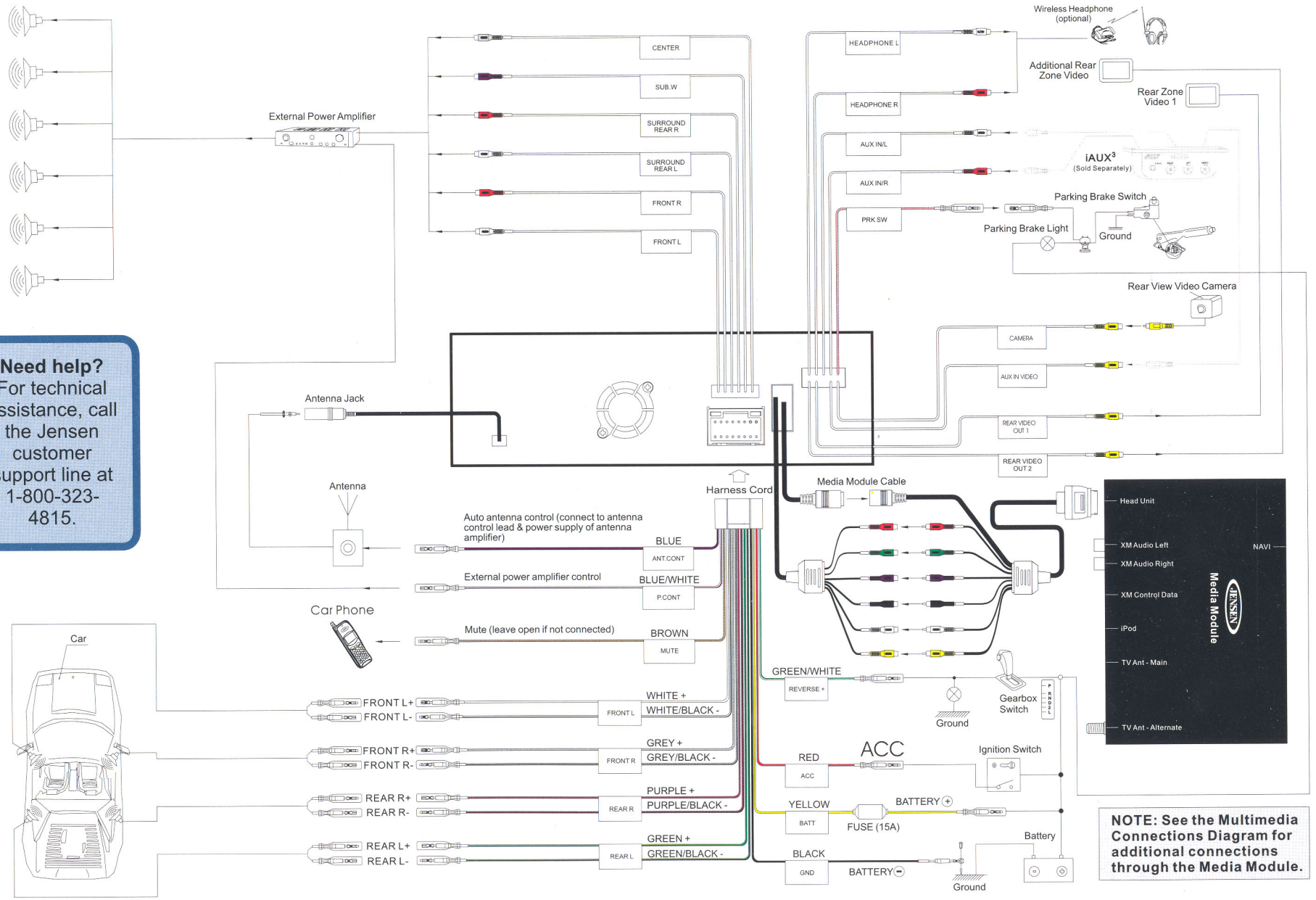
VM9511TS Mobile Multimedia AM/FM/DVD Receiver Quick Start Guide

IMPORTANT: Incorrect wiring connections can damage the unit. Follow the wiring instructions carefully, or have the installation handled by an experienced technician.



Need help?
For technical assistance, call the Jensen customer support line at 1-800-323-4815.

NOTE: See the Multimedia Connections Diagram for additional connections through the Media Module.

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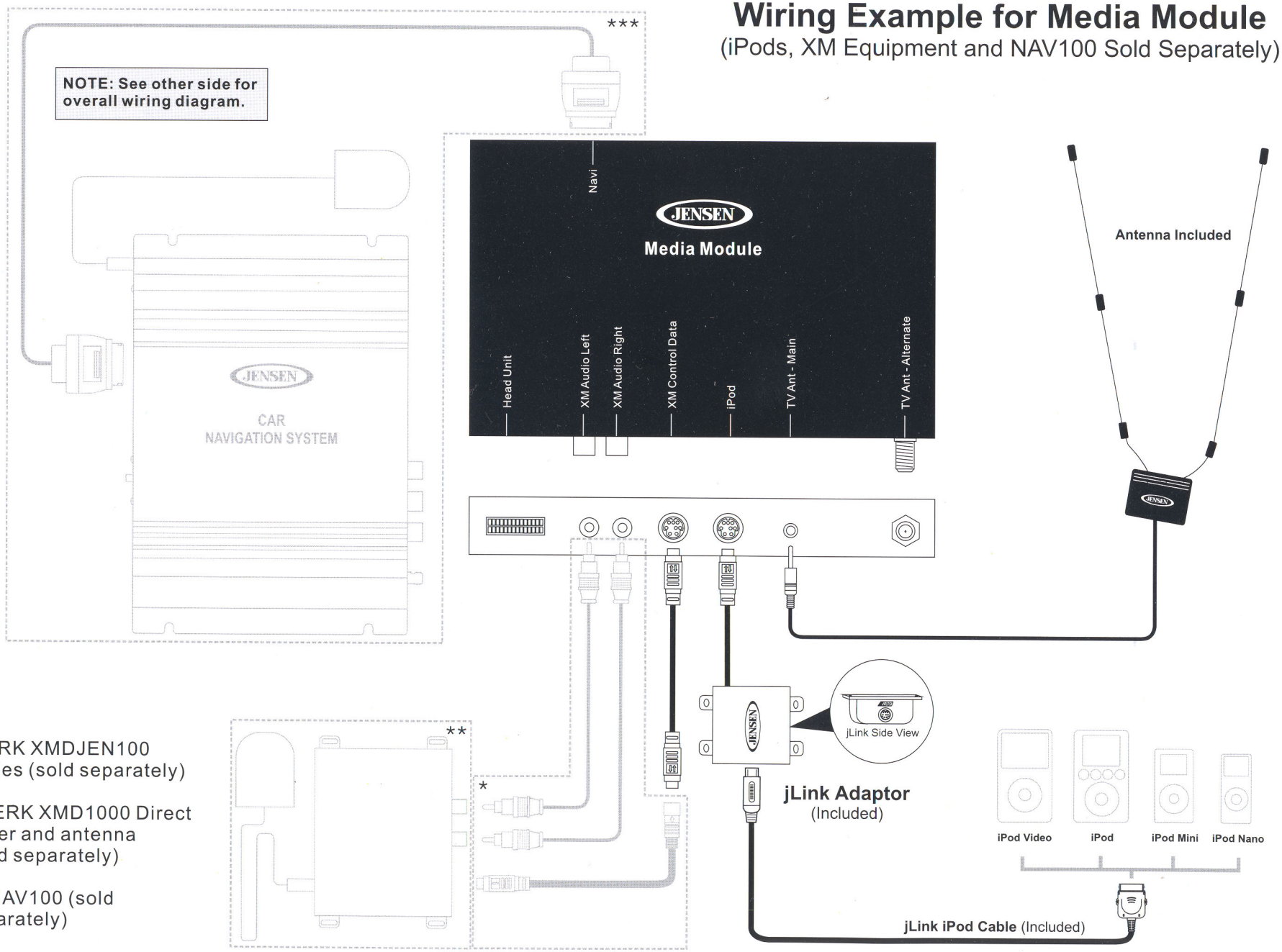
Wiring Example for Media Module

(iPods, XM Equipment and NAV100 Sold Separately)



*TERK XMDJEN100 cables (sold separately)

**TERK XMD1000 Direct Tuner and antenna (sold separately)

***NAV100 (sold separately)